

Talk to your healthcare provider today! See if TROKENDI XR™ is right for you

ONCE-A-DAY

Trokendi XR.

(topiramate) extended-release capsules

25 mg 50 mg 100 mg 200 mg

Please refer to the enclosed full Prescribing Information

and the Medication Guide for complete information on Trokendi XR (topiramate) extended-release capsules.

*Terms and conditions apply.

Please visit TrokendiXR.com for full details on the program.

A once-a-day medicine like Trokendi XR" may be a better option for you

Indication

Trokendi XR is a prescription medicine used:

- To treat certain types of seizures (partial onset seizures and primary generalized tonic-clonic seizures) in people 10 years and older
- With other medicines to treat certain types of seizures (partial onset seizures, primary generalized tonic-clonic seizures, and seizures associated with Lennox-Gastaut syndrome) in adults and children 6 years and older

Who should not take Trokendi XR?

Do not take Trokendi XR if

- You have recently consumed or plan to consume alcohol (ie, within 6 hours prior to and 6 hours after Trokendi XR use)
- You have metabolic acidosis and are also taking metformin (eg, Glucophage·)

What are the possible side effects of Trokendi XR? Trokendi XR can cause serious side effects, including:

Eve problems. Serious eve problems include sudden decrease in vision with or without eve pain or redness, a blockage of fluid that may cause increased pressure in the eye (secondary angle closure glaucoma). Decreased sweating and increased body temperature (fever). People, especially children, should be watched for signs of decreased sweating and fever, especially in hot temperatures. Some people may need to be hospitalized for this condition. Increased levels of acid in the blood (metabolic acidosis). If left untreated, metabolic acidosis can cause brittle or soft bones (osteoporosis, osteomalacia, osteopenia) or kidney stones, can slow the rate of growth in children, and may possibly harm the unborn child of pregnant patients. Suicidal thoughts or actions in a very small number of people, about 1 in 500. High levels of ammonia in the blood. High ammonia in the blood can affect mental activities, slow alertness, cause tiredess, or cause vomiting. Blood ammonia levels have been shown to rise when Trokendi XR is taken with a medicine called valproic acid (eg. DEPAKENE and DEPAKOTE). Kidney stones. Drink plenty of fluids when taking Trokendi XR to decrease your chances of getting kidney stones.

Please refer to the enclosed full Prescribing Information and the Medication Guide for complete information on Trokendi XR (topiramate) extended-release capsules.



Low body temperature. Taking Trokendi XR when you are also taking valproic acid may cause a drop in body temperature to less than 95°F, tiredness, confusion, or coma. Effects on thinking and alertness. Trokendi XR may affect how you think and can cause confusion, problems with concentration, attention, memory, or speech. Trokendi XR may cause depression or mod problems, tiredness, and sleepiness. Dizziness or loss of muscle coordination.

The most common side effects include tingling of the arms and legs (paresthesia), loss of appetite, nausea, a change in the way foods taste, diarrhea, weight loss, nervousness, and upper respiratory tract infection. These are not all the possible side effects of Trokendi XR. For more information, ask your healthcare provider or pharmacist.

Trokendi XR can harm your unborn baby. If you take Trokendi XR during pregnancy, your baby has a higher risk for the birth defects cleft lip and cleft palate. These defects can begin early in pregnancy, even before you know you are pregnant. Tell your healthcare provider about all the medicines you take, including prescription and nonprescription medicines, vitamins, and herbal supplements. Trokendi XR and other medicines may affect each other causing side effects. Especially tell your healthcare provider if you take metformin (eg. Glucophage); valproic acid (eg. DEPAKENE* or DEPANOTE); any medicines that impair or decrease your thinking, concentration, or muscle coordination; or birth control pills. Trokendi XR may make your birth control pills less effective.

How should I take Trokendi XR?

Take Trokendi XR capsules whole. **Do not** sprinkle on food, break, crush, dissolve, or chew capsules before swallowing. Trokendi XR can be taken before, during, or after a meal.

What should I avoid while taking Trokendi XR?

Do not drink alcohol within 6 hours before or 6 hours after taking Trokendi XR capsules. Trokendi XR and alcohol can cause serious side effects such as severe sleepiness and dizzines and so increase in seizures. Do not drive a car or operate heavy machinery until you know how Trokendi XR affects you. Trokendi XR can slow your thinking and motor skills and may affect vision.

For more information please visit www.TrokendiXR.com



If you have additional questions about Trokendi XR™ (topiramate) extended-release capsules, ask your healthcare provider.



Please refer to the enclosed full Prescribing Information and the Medication Guide for complete information on Trokendi XR (topiramate) extended-release capsules.

References: 1. Trokendi XR [package insert] Rockwile, MD. Supernus Pharmaceuticals. Inc. 2013. 2. Topamax [package insert]. Tifuswille, NJ. Janssen Pharmaceuticals, Inc. 2012.



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MEDICATION GUIDE Trokendi XR™ (tro-KEN-dee eks ahr)

(topiramate) Extended-release Capsules

Read this Medication Guide before you start taking Trokendi XR" and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or treatment. If you have any questions about Trokendi XR™, talk to your healthcare provider or pharmacist.

What is the most important information I should know about Trokendi XR™?

Take Trokendi XR™ capsules whole. Do not sprinkle Trokendi XR™ on food, or break, crush, dissolve, or chew Trokendi XR™ capsules before swallowing. If you cannot swallow Trokendi XR™ capsules whole, tell your healthcare provider. You may need a different medicine.

Do not drink alcohol within 6 hours prior to and 6 hours after Trokendi XRnd administration

Trokendi XR™ may cause eye problems. Serious eye problems include:

- · any sudden decrease in vision with or without eve pain and redness.
- · a blockage of fluid in the eye causing increased pressure in the eye (secondary angle closure glaucoma).
- . These eye problems can lead to permanent loss of vision if not treated. You should call your healthcare provider right away if

you have any new eye symptoms. Trokendi XR™ may cause decreased sweating and increased body temperature (fever). People, especially children, should be watched for signs of decreased sweating and fever, especially in hot temperatures. Some people may need to be hospitalized for this condition.

Trokendi XR™ can increase the level of acid in your blood (metabolic acidosis). If left untreated, metabolic acidosis can cause brittle or soft bones (osteoporosis, osteomalacia, osteopenia), kidney stones, can slow the rate of growth in children, and may possibly harm your baby if you are pregnant. Metabolic acidosis can happen with or without symptoms. Sometimes people with metabolic acidosis will:

- · feel tired
- not feel hungry (loss of appetite)
- · feel changes in heartbeat
- · have trouble thinking clearly

Your healthcare provider should do a blood test to measure the level of acid in your blood before and during your treatment with Trokendi XR™. If you are pregnant, you should talk to your healthcare provider about whether you have metabolic acidosis.

Like other antiepileptic drugs, Trokendi XR™ may cause suicidal thoughts or actions in a very small number of people, about 1 in 500. Call a healthcare provider right away if you have any of these symptoms, especially if they are new, worse, or worry you:

- · thoughts about suicide or dving
- · attempts to commit suicide
- · new or worse depression
- · new or worse anxiety
- · feeling agitated or restless
- · panic attacks
- · trouble sleeping (insomnia) -
- · new or worse irritability
- · acting aggressive, being angry, or violent · acting on dangerous impulses
- an extreme increase in activity and talking (mania)
- · other unusual changes in behavior or mood

Do not stop Trokendi XR™ without first talking to a healthcare provider.

- Stopping Trokendi XR™ suddenly can cause serious problems.
- . Suicidal thoughts or actions can be caused by things other than medicines. If you have suicidal thoughts or actions, your healthcare provider may check for other causes.

How can I watch for early symptoms of suicidal thoughts and actions?

- · Pay attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings.
- . Keep all follow-up visits with your healthcare provider as scheduled
- · Call your healthcare provider between visits as needed, especially if you are worried about symptoms.

Trokendi XR™ can harm your unborn baby.

- · If you take Trokendi XR™ during pregnancy, your baby has a higher risk for birth defects called cleft lip and cleft palate. These defects can begin early in pregnancy, even before you know you are pregnant.
- · Cleft lip and cleft palate may happen even in children born to women who are not taking any medicines and do not have other
- . There may be other medicines to treat your condition that have a lower chance of birth defects.
- · All women of childbearing age should talk to their healthcare providers about using other possible treatments instead of Trokendi XR™. If the decision is made to use Trokendi XR™, you should use effective birth control (contraception) unless you are planning to become pregnant. You should talk to your doctor about the best kind of birth control to use while you are taking Trokendi XR™
- · Tell your healthcare provider right away if you become pregnant while taking Trokendi XR™. You and your healthcare provider should decide if you will continue to take Trokendi XR™ while you are pregnant.
- · Metabolic acidosis may have harmful affects on your baby. Talk to your healthcare provider if Trokendi XR" has caused metabolic acidosis during your pregnancy.
- Pregnancy Registry: If you become pregnant while taking Trokendi XR™, talk to your healthcare provider about registering with the North American Antiepileptic Drug Pregnancy Registry. You can enroll in this registry by calling 1-888-233-2334. The purpose of this registry is to collect information about the safety of Trokendi XR™ and other antiepileptic drugs during pregnancy.

What is Trokendi XR™?

Trokendi XR™ is a prescription medicine used:

- to treat certain types of seizures (partial onset seizures and primary generalized tonic-clonic seizures) in people 10 years and older
- · with other medicines to treat certain types of seizures (partial onset seizures, primary generalized tonic-clonic seizures, and seizures associated with Lennox-Gastaut syndrome) in adults and children 6 years and older.

What should I tell my healthcare provider before taking Trokendi XR™? Before taking Trokendi XR™, tell your healthcare provider about all your

medical conditions, including if you:

- · have or have had depression, mood problems or suicidal thoughts or behavior
- · have kidney problems, kidney stones or are getting kidney
- · have a history of metabolic acidosis (too much acid in the blood) · have liver problems
- · have weak, brittle or soft bones (osteomalacia, osteoporosis,
- osteopenia, or decreased bone density)
- have lung or breathing problems
- · have eve problems, especially glaucoma
- have diarrhea
- · have a growth problem
- · are on a diet high in fat and low in carbohydrates, which is called a ketogenic diet
- · are having surgery
- · are pregnant or plan to become pregnant

 are breastfeeding. Trokendi XR™ passes into your breast milk. It is not known if the Trokendi XR™ that passes into breast milk can harm your baby. Talk to your healthcare provider about the best way to feed your baby if you take Trokendi XR™.

Tell your healthcare provider about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supplements. Trokendl XR* and other medicines may affect each other causing side effects.

Especially, tell your healthcare provider if you take:

- . Metformin (such as Glucophage)
- Valproic acid (such as DEPAKENE® or DEPAKOTE®)
- · any medicines that impair or decrease your thinking,
- concentration, or muscle coordination
- birth control pills. Trokendi XR™ may make your birth control pills less effective. Tell your healthcare provider if your menstrual bleeding changes while you are taking birth control pills and Trokendi XR™.

Ask your healthcare provider if you are not sure if your medicine is listed above.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist each time you get a new medicine. Do not start a new medicine without talking with your healthcare provider.

How should I take Trokendi XR™?

- Take Trokendi XR™ exactly as prescribed.
- Your healthcare provider may change your dose. Do not change your dose without talking to your healthcare provider.
- Take Trokendi XR™ capsules whole. Do not sprinkle Trokendi XR™ on food, or break, crush, dissolve, or chew Trokendi XR™ capsules before swallowing.
- Trokendi XR™ can be taken before, during, or after a meal. Drink plenty of fluids during the day. This may help prevent kidney stones while taking Trokendi XR™.
- If you take too much Trokendi XR™, call your healthcare provider or poison control center right away or go to the nearest emergency room.
- If you miss a single dose of Trokendi XR™, take it as soon as you
 can. Do not double your dose. If you have missed more than one
 dose, you should call your healthcare professional for advice.
- Do not stop taking Trokendi XR⁻¹ without talking to your healthcare provider. Stopping Trokendi XR⁻¹ suddenly may cause serious problems. If you have epilepsy and you stop taking Trokendi XR⁻¹ suddenly, you may have seizures that do not stop. Your healthcare provider will tell you how to stop taking Trokendi XR⁻¹ slowler.
- Your healthcare provider may do blood tests while you take Trokendi XR™.

What should I avoid while taking Trokendi XR"?

- Do not drink alcohol within 6 hours before or 6 hours after taking Trokendi XR* capsules. Trokendi XR and alcohol can cause serious side effects such as severe sleepiness and dizziness and an increase in seizures.
- Do not drive a car or operate heavy machinery until you know how Trokendi XR™ affects you. Trokendi XR™ can slow your thinking and motor skills, and may affect vision.

What are the possible side effects of Trokendi XR"?

Trokendi XR™ may cause serious side effects including:

- High blood ammonia levels. High ammonia in the blood can affect your mental activities, slow your alertness, make you feel tired, or cause vomiting. This has happened when Trokendi XR[™] is taken with a medicine called valoroic acid DEPAKENE [®] and DEPAKOTE[®]).
- Kidney stones. Drink plenty of fluids when taking Trokendi XR™ to decrease your chances of getting kidney stones.
- Low body temperature. Taking Trokendi XR™ when you are also taking valproic acid cause a drop in body temperature to less than 95°F, feeling tired, confusion, or coma.

- Effects on thinking and alertness. Trokendi XR™ may affect how
 you think, and cause confusion, problems with concentration,
 attention, memory, or speech. Trokendi XR™ may cause
 depression or mood problems, tiredness, and sleepiness.
- · Dizziness or loss of muscle coordination.

Call your healthcare provider right away if you have any of the symptoms above.

The most common side effects of Trokendi XR™ include:

- tingling of the arms and legs (paresthesia)
- · not feeling hungry
- nausea
 - · a change in the way foods taste
- diarrhea
- weight loss
- nervousness

· upper respiratory tract infection

Tell your healthcare provider about any side effect that bothers you or that does not go away.

These are not all the possible side effects of Trokendi XR[™]. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report

side effects to FDA at 1 800-FDA-1088.
You may also report side effects to Supernus Pharmaceuticals, Inc. at 1-866-398-0833

How should I store Trokendi XR™?

- Store Trokendi XR™ tablets at room temperature between 59°F to 86°F (15°C to 30°C).
- Keep Trokendi XR™ in a tightly closed container.
- Keep Trokendi XR™ dry and away from moisture and light.
- Keep Trokendi XR™ and all medicines out of the reach of children.

General information about Trokendi XR™

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use Trobendi XR* for a condition for which it was not prescribed. Do not use Trobendi XR* for a condition for which it was not prescribed. Do not use Trobendi XR* to other people, even if they have the same symptoms that you have. It may harm them. This Medication Guide summarizes the most important information about Trobendi XR*. If you would like more information, talk with your healthcare provider You can ask your pharmacist or healthcare provider for information about Trobendi XR* that is written for health professionals. For more information, oo to www.tofendisc.com or call 1-866-389-0831.

Active ingredient: topiramate

What are the ingredients in Trokendi XR"?

Inactive ingredients:

Sugar spheres, NF; hypromellose (Type 2910), USP; mannitol, USP; docusate sodium, USP; sodium benzoate, NF; ethylcellulose, NF; oleic acid, NF; medium chain triglycerides, NF; polyethylene glycol, NF; polyvinyl alcohol, USP; titanium dioxide, USP; taic, USP; lecithin, NF; xanthan oum, NF.

Capsule shells: Gelatin, USP; titanium dioxide, USP; colorants.

Colorants:

FD&C Blue #1 (all strength capsules)
Yellow iron oxide, USP (25 mg and 50 mg capsules)
FD&C red #3 (50 mg, 100 mg and 200 mg capsules)
FD&C yellow #6 (50 mg, 100 mg and 200 mg capsules)
Riboflavin, USP (25 mg capsules)

All capsule shells are imprinted with black print that contains shellac, NF, and black iron oxide. NF

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Manufactured by: Catalent Pharma Solutions, Winchester, KY USA 40391 Manufactured for: Supernus Pharmaceuticals, Inc. Rockville, MD USA 20850

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RA-TRO-MGV2

Issued: August 2013

TROKENDI XR™ (topiramate) extended-release capsules

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use TROKENDI XR safely and
effectively. See full prescribing information for TRDKENDI XR.

Trokendi XR (topiramate) extended-release capsules for oral use Initial U.S. Approval: 1996

INDICATIONS AND USAGE-

- Trolerad XI⁻¹ is an enterpleate; constitution of the XIII and XI

	Initial Dose	Titration	Recommended Dose
Monotherapy: Partial	Onset or Primary Gener	alized Tonic-Clonic Seizures	
Adults and pediatric patients 1D years and older (2.1)	5D mg orally once daily	Increase dose weekly by increments of 5D mg for first 4 weeks then 1DD mg for weeks 5 to 6	4DD mg once daily
Adjunctive Therapy			
Adults with partial onset seizures or LGS (2.2)	25 mg to 5D mg orally once daily	Increase dose weekly by increments of 25 mg to 5D mg to achieve an effective dose	2DD mg to 4DD mg once daily
Adults with primary generalized tonic-ctonic seizures (2.2)	25 mg to 5D mg orally once daily	Increase dose weekly to an effective dose by increments of 25 mg to 5D mg	4D0 mg once daily
Pediatric patients 6 years and older with partial onset seizures, primary generalized tonic- clonic seizures, or LGS (2.2)	25 mg once at nighttime (based on a range of 1 mg/kg to 3 mg/kg once daily) for first week	Increase dosage at 1- or 2-week intervals by increments of 1 mg/kg to 3 mg/kg Dose titration should be guided by clinical outcome	5 mg/kg to 9 mg/kg once daily

Swallow capsule whole and intact. Do not sprinkle on food, chew, or crush (2.9)

- DOSAGE FORMS AND STRENGTHS
 Extended-release capsules: 25 mg, 50 mg, 1DD mg, and 2DD mg (3)
- CONTRAINDICATIONS
 With recent alcohol use (ie, within 6 hours prior to and 6 hours after Trokendi XR use [(4), (5.4)]
 In patients with metabolic acidosis taking concomitant metformin [(4), (5.3)]

FULL PRESCRIBING INFORMATION: CONTENTS*

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-WARNINGS AND PRECAUTIONS.

- Acute myopia and secondary angle closure glaucoma: Untreated elevated intraocular pressure can lead to permanent visual loss. Discontinue Trokend XR* if it occurs (5.1) of Oligophyrosis and hypertherma. Montor decreased sweating and increased body temperature, especially in pediatric patients (5.2) Metabolic acidosis. Measure baseline and periodic measurement of serum bicarbonate.
 - Oligolythosis and hypotherma: Michael decreased sweating and increased body temperature, speciatility in packing; patient (5.2) in an appendix many particular patient (5.3) in a periodic measurement of semin bicarbonate. Consider cose reduction or discontinuation of Trokendi XR** If clinically appropriate (5.3) Suicidal Dehalvos and Iduation Analogies (1.4) patients with the patient of the control of the

The most common (greater than 5% more frequent than placebo or low-dose topiramate in monotherapy) adverse reactions were paresthesia, anoreia, weight decrease, frailbur discrizes, somolocier, enerususes, sychomotor slowing, difficulty with monor, difficulty with concentration/attention, cognitive problems, confusion, mood problems, fever, infection, and flushing (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Supernus Pharmaceuticals at 1-866-398-D833- or the FDA at 1-800-FDA-1D88 or www.fda.gov/medwatch. -----DRUG INTERACTIONS----

- Oral contraceptives: Decreased contraceptive efficacy and increased breakthrough bleeding,
 Photophin or contractangume: Concentration of the property of the Contractangume: Concentrations of topiramete (7.3)

 Other carbonic anythrase inhibitors: Monitor for the appearance or worsening of metabolic acidoses (7.5)

 Lithium: Monitor lithium levels when co-administered with high-dose topiramate (7.7)
- -----USE IN SPECIFIC POPULATIONS--

- Menal impairment: (creatinine clearance less than 70 m./min/1.73m/n, one-half of the adult does is recommended (8.7). A relation bedearance less than 70 m./min/1.73m/n, one-half of the adult does is recommended (8.7). A relation bunderpool heroidesplack forginants is deserted by heroidesplack. Social deserted programment of the prog nider (8.4)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

Revised: August 2D13

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 Sections or subsections omitted from the full prescribing information are not listed

alone based upon postmarketing reports. Although hyperammonemia may be asymptomatic, clinical symptoms of hyperammonemic encephalopathy often include acute alterations in level of consciousness and/or cognitive furction with letarray or vantiling, in most cases, symptoms and signs abated with discontinuation of either drug. This adverse reaction is not due to a pharmacolitatic interaction.

Although Trokendi XR⁻¹ is not indicated for use in infants/hoddlers (1 month to 24 months), topiralmate with concomitant VPA clearly produced a dose-related increase in the incidence of produced to the concept of the concept of

Hyperammonemia with and without encephalopathy has also been observed in postmarketing reports in patients taking topiramate with valproic acid (VPA).

The hyperammonemia associated with topiramate treatment appears to be more common when used concomitantly with VPA.

Monitorina for Hyperammonemia

Patients with inborn errors of metabolism or reduced hegatic mitochondrial activity may be at an increased risk for hyperammonemia with or without encephalopathy. Although not studied, hopiramate-for Trokendi XR[®] treatment or an interaction of concomitant hopiramate-based product and valproic acid treatment may exacerbate existing defects or unmask deficiencies in susceptible persons.

patients who develop unexplained ith any topiramate treatment, hyper nmonia level should be measured. ed lethargy, vomiting, or changes in mental status assoc perammonemic encephalopathy should be considered a

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5.10 Midny Stones.

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Trokend XR² would be expected to have the same effect as topiramate on the formation of kidney stones. An explanation for the association of topiramate and kidney stones may lay in the fact that topiramate is a cathonic anhytines inhibition. Cathonic analytics enhablinct legal proteination, excretion and by increasing unimary life less Warnings and Precautions (5.91). The concomitant used Trokend XR² with any other drug producing metabolic acidesics, or potentially in patients on a k-topient det may create a physiological environment that increases the risk of kidney stone formation, and should therefore be avoided therefore the avoided to the comment of the control of the cont

Increased fluid intake increases the urinary output, lowering the concentration of substances involved in stone formation. Hydration is recommended to reduce new stone formation.

6.1 Clinical Trials Experience

8ecause clinical trials are conducted under widely varying conditions, adverse reaction ra observed in the clinical trials of a drug cannot be directly compared to rates in the clinical tri of another drug and may not reflect the rates observed in clinical practice.

Adverse Reactions Observed in Monotherapy Trial (Statisty 1) that occurred most commonly in adults in the 400 mg per formation of the 100 mg per formation of the 400 mg per day group (incidence greater than or equal to 5%) and at a rate higher than the 50 mg per day group were paresthesia, weight decrease, somodence, anorexia, dizziness, and difficulty with memory lese Table 21 (see Cilcuids Studies 17 cilcuids 17 cilcuids Studies 17 cilcuids 18 cilcuids 17 cilcuids 17

Approximately 21% of the 159 adult patients in the 400 mg per day group who received topiramate as monotherapy in Study 1 discontinued therapy due to adverse reactions. The most common (greater than or equal to 24% more frequent than low-does 50 mg per day topiramate) adverse reactions causing discontinuation in this trial were difficulty with memory, fatigue asthenia, isomania, somnothece and praershesia.

Pediatric Patients 10 Years to 16 Years of Age
The adverse reactions in the controlled that (Study 1) that occurred most commonly in children
The adverse reactions in the controlled that (Study 1) that occurred most commonly in children
The adverse reaction is a study of the controlled that the study of the controlled that the study of the controlled to the controlled to the controlled that the study of the controlled to the controlled that the study of the controlled to the controlled that the controlled that the study of the controlled that the controlled that the study of the controlled that the

Approximately 12% of the 57 pediatric patients in the 400 mg per day group who received topiramate as monotherapy in the controlled clinical trial discontinued therapy due to adverse reactions. The most common (greater than 5%) adverse reactions resulting in discontinuation in this trial were difficulty with concentration/attention.

Table 2: Incidence of Treatment-Emergent Adverse Reaction in the Monotherapy Epilepsy Trial in Adults' Where Incidence Was at Least 2% in the 40D mg/day Immediate-Release Topiramate Group and Greater Than the Rate in the 50 mg/day Immediate-Release Topiramate Group Immediate-release topiramate Dosage (mg/day)

Body System/ Adverse Reaction	5D (N=16D)	4DD (N=159)
8ody as a Whole-General Disorders		
Asthenia	4	6
Leg Pain	2	3
Chest Pain	1	2
Central & Peripheral Nervous System	Disorders	
Paresthesia	21	4D
Dizziness	13	14
Hypoesthesia	4	5
Ataxia	3	4
Hypertonia	Ď	3
Gastro-intestinal System Disorders		
Diarrhea	5	6
Constipation	1	4
Gastritis	D	3
Dry Mouth	1	3
Gastroesophageal Reflux	1	2

donic seizures, or LGS (2.2) daily) for first week Oose titration should be guided by clinical outcome

Swallow capsule whole and intact. Oo not sprinkle on food, chew, or crush (2.9)

DOSAGE FDRMS AND STRENGTHS
 Extended-release capsules: 25 mg, 50 mg, 100 mg, and 200 mg (3)

----CDNTRAINDICATIONS----

With recent alcohol use (ie, within 6 hours prior to and 6 hours after Trokendi XR use ((4), (5.4))

In patients with metabolic acidosis taking concomitant metformin [(4), (5.3)]

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Revised: August 2D13

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7.7 Lithium

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13.1 Cardinogenesis, Mulaganesis, and Impairment of Fertility
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included and immediate-fleshese Toystanate formulations
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16.2 Storage and Handling
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alone based upon postmarketing reports. Although hyperammonemia may be asymptomatic, clinical symptoms of hyperammonemic encephalogathy often include acute alterations in level of consciousness and/or cognitive function with lettangy or venting, in most cases, symptoms and signs abated with discontinuation of either drug. This adverse reaction is not due to a pharmacoknetic interaction.

Although Trokendi XR^{**} is not indicated for use in infants/toddiers (1 morth to 24 months), toprimated with concomitant VPA clearly produced a dose-related screase in the incidence of the control o

Hyperammonemia with and without encephalopathy has also been observed in postmarketing reports in patients taking topiramate with valproic acid (VPA).

The hyperammonemia associated with topiramate treatment appears to be more common when used concomitantly with VPA.

Monitoring for Hyperammonemia

Patients with inborn errors of metabolism or reduced hepatic mitrochondrial activity may be at an increased risk for hyperammonemia with or without encephalopathy. Although not studied, topiramate or Trokendri NR "Treatment or an interaction of concomitant topirantale-based product and valproic acid treatment may exacerbate existing defects or unmask deficiencies in susceptible persons.

ined lethargy, vomiting, or changes in mental status associated hyperammonemic encephalopathy should be considered and an

5.10 Midney Stores.

5.10 Midney Stores.

5.10 Midney Stores.

6.10 Midn

Tokend JRT would be expected to have the same effect as topicamate on the formation of kidney stores. An explanation for the association of topicamate and kidney stores may lay in the take that topicamate is a combor all shydrae milhables (caboric allystics milhables (gardiaented, partial particles) and topicamate and t

Increased fluid intake increases the urinary output, lowering the concentration of involved in stone formation. Hydration is recommended to reduce new stone formati

5.11 Hypothermia with Concomitant Valprois Acid Use Hypothermia, defined as an unintentional drop in body core temperature to less than SS*C (SS*F) Hypothermia, defined as an unintentional drop in body core temperature to less than SS*C (SS*F) has been reported in secondation with to profit concomitant valprois caid (PNR) both in the presence and in the absence of hypotraminoremia. This adverse residuo in patients using in the daily dose of topicamels [see Acid yell intendition (7.5)]. Consideration should be given to stopping topicamate or valgroate in patients who develop hypothermia, which may be mainsteaded by a variety of clinical absorbanties including letherity, contission, coma, and significant alterations in other major organ systems such as the cardiovascular and respiratory systems.

5.12 Paresithesia (usually lingling of the extremities), an effect associated with the use of other carbonic anhydrase inhibitors, appears to be a common effect of topiramete. Paresithesia was more frequently reported in the monotherapy epilepsy risals conducted with bioparamet than in the adjunctive therapy epilepsy trials conducted with the same product. In the majority of instratese, paresithesia did not lead to treatment discontinuation.

5.13 Interaction with Other CNS Depressants
Topicamate is a CNS depressant. Concomitant administration of topiramate with other CNS
depressant drugs can result in significant CNS depression. Patients should be watched carefully
when Trokendt XA" is co-administered with other CNS depressant drugs.

The following adverse reactions are discussed in more detail in other sections of the labeling

Leader Myoria and Secolarity Angle Govern Jeen Warnings and Precautions (5.1)

- Disployhoosis and Hyperthermia (see Warnings and Precautions (5.2))

- Disployhoosis and Hyperthermia (see Warnings and Precautions (5.2))

- Mattabolic Acidosis (see Warnings and Precautions (5.5))

- Suicidal Bethevior and Ideation (see Warnings and Precautions (5.6))

- Suicidal Bethevior and Ideation (see Warnings and Precautions (5.6))

- Vithidrawal of Antisplieptic Orugi (see Warnings and Precautions (5.6))

- Withdrawal of Antisplieptic Orugi (see Warnings and Precautions (6.7))

- Withdrawal of Antisplieptic Orugi (see Warnings and Precautions (5.6))

- Withdrawal of Antisplieptic Orugi (see Warnings and Precautions (5.6))

- Withdrawal of Antisplieptic Orugi (see Warnings and Precautions (5.6))

- Withdrawal of Antisplieptic Orugi (see Warnings and Precautions (5.10))

- Withdrawal of Antisplieptic Orugi (see Warnings and Precautions (5.11))

- Parenthelia (see Warnings and Precautions (6.12))

The data described in the following sections were obtained using immediate-release boilcandar tablets in studies of patients with gallergy Trobond XIS** has not been outside in a randomized, patients with gallergy Trobond XIS** has not been outside in a randomized, patients overland the American State (and the Americ

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Adverse Reactions uses we an immonstracy run doublist. Teas and off life controlled trial (Slady 1) that occurred most commonly in abults in the adverse reactions in the controlled trial (Slady 1) that occurred most commonly in abults in the 400 mg per day group (incidence of greater than or equal to 5%) and at a rath higher than the life of the 400 mg per day of the

Approximately 21% of the 159 adult patients in the 400 mg per day group who received topiramate as monotherapy in Study 1 discontinued therapy due to adverse reactions. The most common (greater than or equal to 2% more frequent than to-vide 50 mg per de potentiamate) adverse reactions causing discontinuation in this trial were difficulty with memory, fistigue, estimate, incoming, ownerchoice and practices as

Polisité, Falionis, 10 Jianos, 10, 15 Was of April The adverse rescloire in the controlled int (Study 1) that occurred most commonly in children (10 years up to 16 years of ago) in the 400 mg per day topramate group (incidence greater than or equal to 5%) and at a rate higher than in the 50 mg per day group were weight decrease, upper respiratory tract infection, paresthesia, anorexia, diarrhea, and mood problems (see Table 5) (see Cinical Studies (14.2)).

Approximately 12% of the 57 pediatric patients in the 400 mg per day group who received topiramate as monotherapy in the controlled clinical trial discontinued therapy due to adverse reactions. The most common (greater than 5%) adverse reactions resulting in discontinuation in this first were difficulty with concentration attention.

Table 2: Incidence of Treatment-Emergent Adverse Reaction in the Monotherapy Epilepsy Trial in Adults' Where Incidence Was at Least 2% in the 400 mg/day Immediate-Release Topiramate Group and Greater Than the Rate in the 50 mg/day Immediate-Release Topiramate Group and Grou

Body System/ Adverse Reaction	Immediate-release top 5D (N=160)	iramate Dosage (mg/day 4D0 (N=159)
Body as a Whole-General Disorders		
Asthenia	4	6
Leg Pain	2	3
Chest Pain	1	2
Central & Peripheral Nervous System		
Paresthesia +	21	40
	13 4	14
Hypoesthesia Ataxia	3	5
Ataxia Hypertonia	0	3
		3
Gastro-intestinal System Disorders Diarrhea	5	6
Constination	1	4
Sastritis	0	3
Dry Mouth	1	3
Gastroesophageal Reflux	1	3 2
		4
Liver and Biliary System Disorders Gamma-GT Increased		
	1	3
Metabolic and Nutritional Disorders Weight Decrease	6	40
	0	16
Psychiatric Disorders		
Somnolence	9	15
Anorexia	4	14
Difficulty with Memory NDS	5	10
nsomnia	8	9
Depression	7	9
Difficulty with Concentration/Attention	7	8
Anxiety	4	6
Psychomotor Slowing	3	5
Mood Problems	5 8 7 7 4 3 2 3	5
Confusion	3	4
Cognitive Problem NDS	1	4
Libido O <i>e</i> creased	0	3
Reproductive Disorders, Female		
Vaginal Hemorrhage	0	3
Red Blood Cell Disorders		
An <i>e</i> mia	1	2
Resistance Mechanism Disorders		
Infection Viral	6	8
nfection	2	3
Respiratory System Disorders		
Bronchitis	3	4
Rhinitis	2	4
Ovsonea	1	2
Skin and Appendages Disorders		
Skin and Appendages Disorders Rash	1	4
Pruritus	1	4
Acne	2	3
Special Senses Other, Disorders Taste Perversion		
laste Perversion	3	5

Urinary System Disorders Cystitis Renal Calculus Urinary Tract Infection Oysuria Micturition Frequency

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1 INDICATIONS AND USING:

1.1 Partial Onset Seizure and Primary Generalized Tonic-Clonic Seizures
Trokendi XR" (topiramate) extended-release capsules are indicated as initial mon
trokendi XR" (topiramate) extended-release capsules are indicated as initial mon
trokendi XR" (topiramate) extended-release capsules are infinity operatized tonic-clor Tricked X7 ((b)) remarks of the control of the cont

1.2 Lennox-Gastaut Syndrome Trokendi XR™ (topiramate) exte Trokend XR* (topinante) extended-release capsules are indicated as adjunctive therapy in patients 6 years of age and older with seizures associated with Lennox-Gastaut syndrome [see Clinical Studies (14.5)].

2 DOSAGE AND ADMINISTRATION

2.1 Monotherapy Use
Adults and Padatric Pallents 1.0 Years and Dider with Partial Onset or Primary Generalized Tools:
CDRICKS-SECURES
The recommended close for topiramate monotherapy in adults and pediatric patients 10 years
of age and older is 400 mg orally once daily. Titrate Trokendi XR* according to the following

Week 1 50 mg once daily Week 2 100 mg once daily Week 3 150 mg once daily

Week 4 200 mg once daily Week 5 300 mg once daily Week 6 400 mg once daily

2.2 Adjunctive Therapy Use

Adults (17 Years of Age and Older) - Partial Onset Seizures, Primary Generalized Tonic-Clonic Seizures of Lennox-Gastaut Syndrome

The recommended total daily dose of Trokendi XR™ as adjunctive therapy in adults with partial onset selzures or Lennox-Gastaut Syndrome is 200 mg to 400 mg orally once daily with primary generalized tonic-clonic selzures is 400 mg orally once daily.

Initiate therapy at 25 mg to 50 mg once daily followed by titration to an effective dose in increments of 25 mg to 50 mg every week. Daily topiramate doses above 1600 mg have not been studied.

In the study of primary generalized tonic-clonic seizures using topiramate, the assigned dose was reached at the end of 8 weeks [see Clinical Studies (14.4)].

Pediatrs: Pationis Alpres 6 years in 18 heard. Partial Onset Stitures. Primar Generalized Jonic-tion of the Pediatrs of the P

In the study of primary generalized tonic-clonic seizures, the assigned dose of 6 mg/kg once daily was reached at the end of 8 weeks [see Clinical Studies (14.4)].

2.3 Administration with Alcohol Alcohol use should be completely avoided within 6 hours prior to and 6 hours after Trokendi XR^{**} administration [see Warnings and Precautions (5.4)].

2.4 Dose Modifications in Patients with Renal Impairment In patients with renal impairment (creatinine clearance less than 70 mL/min/1.73 m²), one-half of the usual adult dose is recommended. Such patients will require a longer time to reach steady-state usual adult d at each dose

Prior to dosing, obtain an estimated GFR measurement in patients at high risk for renal insufficiency (eg. older patients, or those with diabetes mellitus, hypertension, or autoimmune disease).

2.5 Design Modifications in Patients Undergoing Hemodialysis
rophimate in clean of by hemodialysis at a rate that is 4 to 5 times greater than in patients
rophimate in clean of the production of the production

- duration of dialysis period
 clearance rate of the dialysis system being used
 effective renal clearance of topiramate in the patient being dialyzed

2.6 Laboratory Testing Prior to Treatment Initiation Measurement of baseline and periodic serum bloarbonate during Trokendi XR™ treatment is recommended (see Warmings and Precautions (5.91).

2.7 Dosing Modifications in Patients Taking Phenyloin and/or Carbamazepine
The co-administration of Trokendi XR* with phenyloin may require an adjustment of the dose
of phenyloin to achieve optimal clinical outcome. Addition or withdrawal of phenyloin and/or
carbamazepine during adjunctive therapy with Trokendi XR* may require adjustment of the dose
of Tokendi XR*.

! *Monitoring for Therapeutic Blood Levels* s not necessary to monitor topiramate plasma concentrations to optimize Trokendi XR [™] therapy

2.9 Administration Instructions Trokendi XR™ can be taken without regard to meals.

Swallow capsule whole and intact. Do not sprinkle on food, chew, or crush:

Values represent the percentage of patients reporting a given adverse reaction. Patients may have reported more than one adverse reaction during the study and can be included in more than one adverse reaction category

Table 3: Incidence of Treatment-Emergent Adverse Reactions in the Monotherapy Epilepsy Trial in Pediatric Patients (Ages 10 up to 16 Years) Where Incidence Was at Least 5% in the 400 mg/day Immediate-Release Topiramate Group and Greater than the Rate in the 50 mg/day Immediate-Release Topiramate Group

Body System/ Adverse Reaction	Immediate-release topiramate Dosage (n 5D 400 (N=57) (N=57)	
Body as a Whole-General Disorders Fever	0	9
Central & Peripheral Nervous System Paresthesia	Disorders 2	16
Gastro-Intestinal System Disorders Diarrhea	5	11
Metabolic and Nutritional Disorders Weight Decrease	7	21
Psychiatric Disorders Anorexia Mood Problems Difficulty with Concentration/Attention Cognitive Problem NOS Nervousness	11 2 4 0 4	14 11 9 7 5
Resistance Mechanism Disorders Infection Viral Infection	4 2	9 7
Respiratory System Disorders Upper Respiratory Tract Infection Rhinitis Bronchitis Sinusitis	16 2 2 2	18 7 7 5
Skin and Appendages Disorders Alopecia	2	5

Values represent the percentage of patients reporting a given adverse event. Patients may have reported more than one adverse event during the study and can be included in more than one adverse event category

Adverse Reactions Observed in Adjunctive Therapy Epilepsy Trials
The most commonly observed adverse reactions associated with the use of topiranate at
Goossel of 2010 o 400 mpc and you normalize this is indust with partial onset seturces, primary
generalized twinc-domic seturces, or Lemon-Castatus syndrome that were seen at greater frequency
in topiramate-treated patients and of in on speep to be does extelled were: someonierie, ataxos,
speech disorders are related speech problems, psychomotor sowing, shormal valori, difficulty
more common to the common seturces of the common setup of the common set

3 DOSAGE FORMS AND STRENGTHS
Trokendi XR™ (topiramate) extended-release capsules are available in the following strengths Trokendi xi-and colors:

25 mg: Size 2 capsules, light green opaque body/yellow opaque cap (printed "SPN" on the cap, "25" on the body)
75" on the body)
750" on the body)

the body)
0 mg: Size 00 capsules, pink opaque body/blue opaque cap (printed "SPN" on the cap, "200" the body)

4 CONTRAINDICATIONS Trokendi XR™ is contraindicated in patients:

With recent alcohol use (ie, within 6 hours prior to and 6 hours after Trokendi XR" use) [see
Warnings and Procautions (5.4]]
 With metabolic acidosis who are taking concomitant metformin [see Warnings and Precautions
(5.3) and Drug Interactions (7.6)]

5 WARNINGS AND PRECAUTIONS

5 WAININES AND PRECIATIONS

A syndrome consisting of acute myopia associated with secondary angle closure glaucoma has been reported in pallerist receiving logical prinariate. Symptoms include acute onset of decreased been reported in pallerist receiving logical prinariate. Symptoms include acute onset of decreased shallowing, ocular hypermial redirects and increased infraocutar pressure. Mydrissis may or my not be present. This syndrome map be associated with supportingly efficient resulting in anterior displacement of the lens and iris, with secondary angle closure glaucoma. Symptoms applications, which is rear under 40 years of age, ascordary angle closure glaucoma. Symptoms applications, which is rear under 40 years of age, ascordary angle closure grant present with optimizate has been reported in pediatric patients as well as adults. The primary treatment to reverse symptoms to discontinuation of Trieveria XPR angle applications, and the properties of the plagment of the treating dhysician. Other measures, in conjunction with descrimination of Trieveria XPR angle specific by the plaguit.

Elevated intraocular pressure of any etiology, if left untreated, can lead to serious sequelae including permanent vision loss.

5.2 Oligohydrosis and Hyperthermia Olipohydrosis (decreased sweating, resulting in hospitalization in some cases, has been reported in association with olipotrantei use. Decreased sweating and an elevation in body temperature in association with olipotrantei use. Decreased sweating and an elevation in body temperature elevated environmental temperatures.

The majority of the reports have been in pediatric patients. Patients, especially pediatric patients, treated with Trokendi XR** should be monitored closely for evidence of decreased sweating and increased body temperature, especially in hit weather. Caudion should be used when Trokendi XR* is prescribed with other drugs that predispose patients to heat-related disorders; these drugs include, but are not limited to, other carbonic enhancing with altrichiallergic include, but are not limited to, other carbonic enhancing the similar to an extra production of the carbon carbon similar to the carbon carbon carbon similar to the carbon similar to the carbon carbon similar to the carbon carbon similar to the carbon similar to t activity

5.3 Metabolic Acidosis

5.3 Metabolic Acidosis Hyperchierenic, non-aimo gap, metabolic acidosis (ie, decreased serum bicarbonate below the normal reference range in the absence of chronic respiratory alkalosis) is associated with the normal reference range in the absence of chronic respiratory alkalosis) is associated with the contribution of the properties of the properti

Adults ... In incidence of persistent treatment-emergent decreases in serum bicarbonate (levels in adults, he incidence of persistent treatment-emergent decreases in serum bicarbonate (levels in adults, he are incidence). The per day, and "I's life placebo. Metabotic of levels and the persistent of the persistent of

Politatic Eletinate (2 Years to 16 Hears of Age)
Although Trickendi XP is not approved for use in patients below the age of 6, the incidence of presistent treatment—energent decreases in serum bicarbonate in placebo-controlled trials for adjunctive freatment of Letinoc-Statatic syndrome or refractory partial conset sezuruse in patients age? 2 years to 16 years was 61% for topic mantal at approximately on ingly days, and 10% for topic mantal or the properties of the control of the c

In pediatric patients (6 years to 15 years of age), the incidence of persistent treatment-emergent decreases in serum locarbonals in the epilepsy controlled clinical trial for monotherapy performed markedly abromatily low serum locarbonals (i.e. absolute value less than 17 mild., and greater than 5 mild.) decrease from pretreatment) in this trial was 1% for 50 mg per day and 6% for 400 mg per day.

Padiatric Patients (Under 2 Tears of Age)
Although Trokendi XR* is not approved for use in patients less than 6 years of age with partia
onst seizures, a study of topiramate as adjunctive use in patients under 2 years of age revealed
that topiramate produced a metabolic acidosis that is notably greater in magnitude than the
observed in controlled trails in older children and adults. The mean treatment difference (25 mg)

	Topirama	ate Dosage (m	g per day)
Body System/ Adverse Reactions	Placebo (N=291)	2DD-4DD (N=183)	6DD-1,DDI (N=414)
Body as a Whole-General Disorders	(10-201)	(11-100)	(11-41-1)
Fatique	13	15	30
Asthenia	1	6	3
Back pain	. 4	5	3
Chest pain	3	4	2
Influenza-like symptoms	2		4
Leg pain	2	3 2 2 2 2	4
Hot flushes	1	2	1
Alleray	1	2	3
Allergy Edema	1	2	
	0		1
Body odor		1	0
Rigors	0	. 1	<1
Central & Peripheral Nervous System Diso			
Dizziness	15	25	32
Ataxia	7	16	14
Speech disorders/Related speech problems	2	13	11
Paresthesia	4	11	19
Nystagmus	7	10	11
Tremor	6	9	9
Language problems	ĭ	6	10
Coordination abnormal	ż	4	4
Hypoesthesia	í		1
Gait abnormal	1		-
Muscle contractions involuntary	i	9	2 2
Stupor	'n	2 3 2 2	1
Vertigo	1	1	2
	!		
Gastro-intestinal System Disorders			
Nausea	8	10	12
Dyspepsia	6	7	6
Abdominal pain	4	6	7
Constipation	2	4	3
Gastroenteritis	1	2	1
Dry mouth	1	2 2	4
Ginglvitis	<1	1	1
GI disorder	<1	1	Ó
Hearing and Vestibular Disorders			
Hearing decreased	1	2	1
Metabolic and Nutritional Disorders			
Weight decrease	3	9	13
	3	9	13
Musculoskeletal System Disorders			
Myalgia	1	2	2
Skeletal pain	0	1	0
Platelet, Bleeding & Clotting Disorders			
Epistaxis	1	2	1
Psychiatric Disorders			
Somnolence	12	29	28
Nervousness	6	16	19
Psychomotor slowing	2	13	21
Difficulty with memory	3	12	14
Anorexia	4	10	12
Confusion	5		
Contrasion	3	11	14

In the study of primary generalized tonic-clonic seizures using topiramate, the assigned dose was reached at the end of 8 weeks [see Clinical Studies (14.4]].

Paddutz Patients (dop. 6. paras to 1.5 kpm.) – Patiell Onest Seizune, Primary Generalized Tonic-Chella Schriffer (1994) – Patiell Chella Schriffer (1994) – Patiella Schriffer (199

study of primary generalized tonic-clonic seizures, the assigned dose of 6 mg/kg once as reached at the end of 8 weeks [see *Clinical Studies (14.4*)].

2.3 Administration with Alcohol
Alcohol use should be completely avoided within 6 hours prior to and 6 hours after Trokendi XR^{*} administration [see Warnings and Precautions (5.4)].

24 Dose Modifications in Patients with Renal Impairment
In patients with renal impairment (creatinine clearance less than 70 mL/min/1.73 m²), one-half of th
usual adult dose is recommended. Such patients will require a longer time to reach steady-stat
when the patients will require a longer time to reach steady-state.

Prior to dosing, obtain an estimated GFR measurement in patients at high risk for renal insufficiency (eg, older patients, or those with diabetes mellitus, hypertension, or autoimmune disease).

2.5 Desage Modifications in Patients Undergoing Hemodialysis: footname in Cester by a modification at a rate that is 4 to 6 times greater than in patients footname in Cester by a modification of the cester by the cester of t

duration of dialysis period
 clearance rate of the dialysis system being used
 effective renal clearance of topiramate in the patient being dialyzed

2.6 Laboratory Testing Prior to Treatment Initiation Measurement of baseline and periodic serum bicarbonate during Trokendi XR** treatment is recommended [see Warnings and Precautions (5.3)].

2.7 Design Modifications in Periods 1984 prepayation and/or Contamazanian
The co-diministration of Tribend XII^{*} with prepayation and/or Contamazanian
The co-diministration of Tribend XII^{*} with previous may require an elegation of the dose
of phenylon to achieve optimal clinical custome. Addition or withdrawal of phenylonia and/or
carbanizagine during adjunctive therapy with Trokend XII^{*} may require adjustment of the dose
of Tribend XII^{*}.

2.8 Monitoring for Therapeutic Blood Levels It is not necessary to monitor topiramate plasma concentrations to optimize Trokendi XR™ therapy.

2.9 Administration Instructions
Trokendi XR™ can be taken without regard to meals

Swallow capsule whole and intact. Do not sprinkle on food, chew or crush

"Values represent the percentage of patients reporting a given adverse reaction. Patie have reported more than one adverse reaction during the study and can be included in m one adverse reaction category

Table 3: Incidence of Treatment-Emergent Adverse Reactions in the Monotherapy Epilepsy Trial in Pediatric Patients (Ages 10 up to 16 Years)* Where Incidence Was at Least 5% in the 400 mg/day Immediate-Release Topiramate Group and Greater than the Rate in the 50 mg/day immediate-Release Topiramate Group

Body System/ Adverse Reaction		Immediate-release top 5D (N=57)	iramate Dosage (mg/day) 4DD (N=57)
	Body as a Whole-General Disorders Fever	0	9
	Central & Peripheral Nervous System Paresthesia	Disorders 2	16
	Gastro-Intestinal System Disorders Diarrhea	5	- 11
	Metabolic and Nutritional Disorders Weight Decrease	7	21
	Psychiatric Disorders Anorexia Mood Problems Difficulty with Concentration/Attention Cognitive Problem NOS Nervousness	11 2 4 0 4	14 11 9 7 5
	Resistance Mechanism Disorders Infection Viral Infection	4 2	9 7
	Respiratory System Disorders Upper Respiratory Tract Infection Rhinitis Bronchitis Sinusitis	16 2 2 2	18 7 7 5
	Skin and Appendages Disorders Alopecia	2	5

Values represent the percentage of patients reporting a given adverse event. Patients may have reported more than one adverse event during the study and can be included in more than one reported more than one adverse event category

Adverse Reactions Observed in Adjunctive Therapy Epilepsy Trials
The most commonly observed adverse reactions associated with the use of topiramate at
Oscassed of 2010 v. 400 mg pet day in controlled trials in adult with partial onset seizures, primary
generalized totals clicitus, of Latinos-Castatus syndrome that were seen at greater frequency
generalized totals clicitus, of Latinos-Castatus syndrome that were seen at greater frequency
special disorders and related speech problems, psychomotro slowing, abnormal wision, difficulty
with memory, paresthesia and dipopal (see Table 4) [see Citicas Studies (14.3, 14.4, and 14.5)].
The most common dose-clatical adverse executions at Gosspec O200 mg to 1,000 mg per day were
tatigue, nervusaness, difficulty with concentration or attention, confusion, depression, anorexa,
language problems, anoteky, modor problems, and weight decrease (see 7able 6).

Adverse reactions associated with the use of topiramate at dosages of 5 mg/kg/day to 9 mg/kg day in controlled trials in pediatric patients with partial onest estizures, primary generalized tonic clotic setzures, or Lennor-Castatus dyndrome that were seen at greater frequency in topiramate treated patients were: fatigue, somnotence, anorexia, nervousness, officulty with concentration attention, difficulty with memory, agressive reaction, and weight obscrazes (see Table 7).

In controlled clinical trials in adults, 11% of patients receiving logsamate 20 to 400 mg per day as adjunctive therapy discontinued due to adverse reactions. This rate appeared to increase at discages above 400 mp per day. Adverse events associated with discontinuing therapy included somnolence, dizziness, anxiety, difficulty with concentration or attention, fatigue, and persentises and increased at discages above 400 mp per day. Nine of the pediatric patients with received topic analise adjunctive therapy at 5 mg/kg/day to 9 mg/kg/day in controlled clinical trials discontinued due to devireed reactions.

Approximately 28% of the 1757 adults with epilepsy who received topiramate at dosages of 200 mg to 1,600 mg per day in clinical studies discontinued treatment because of adverse reactions, an individual patient could have reported more than one adverse reaction. These adverse reactions inclinical patient could have reported more than one adverse reaction. The adverse reactions were: psychonoxids coving 4,47%, difficulty with memory (2.2%, fistipate 2.5%, outputs) carever reactions. C25%, talegoe 2.5%, outputs of 2.5%, outputs o

Incidence in Epiteory Controlled Clinical Trails: Advanctive Theracy — Partial Ornet Setures. Primary Controlled Doi: Colorio Setures, and Lennot-Gastal Syndroms per development of the Colorio Setures, and Lennot-Gastal Syndroms per development of the Colorio Setures, and Lennot-Gastal Syndroms with 200 to 400 mg per development to controlled trails that were numerically more common at this does than in the patients treated with placebo. In general, most patients who experienced adverse reactions during the first eight weeke of these trains no tomogree operanced them by their last what Table to 6 mg/kg topiramate in controlled trials that were numerically more common than in patients treated with placed.

Other Advance Reactions Observed During Double Silver Enrigory Advanction Therapy Tribs. Other densers excellent Ball occurred in more than 1% of dataler reader with 200 mp is 40 or of logicarnate in placebo-controlled epilepsy trials but with equal or greater frequency in placebo group vere headesche, injury, another, consultant agreement placebo group vere headesche, injury, another, and placebo group vere repeated very and infection, and eye pain.

Table 4: Incidence of Adverse Reactions in Placebo-Controlled, Adjunctive Epilepsy Trials in Adults

The majority of the reports have been in pediatric patients. Patients, especially pediatric patients, treated with Trokend XR "Should be monitored closely for evidence of decreased sweating and increased body temperature, especially in hot weather. Caution should be used when Trokend XR "is prescribed with other drugs that predispose patients to heat-leated disorders, these drugs include, but are not initied to, other exotion callifyties with hibbitors and drugs with articinitening in foundable, but are not initied to, other exotion callifyties with the source of the control of t

activity.

3.3 Metabolic Acidosis

Hyperchisemic, non-anion gap, metabolic acidosis (e. decreased serum bicarbonate below

Hyperchisemic, non-anion

pag, metabolic Acidosis

Hyperchisemic, non-anion

pag, metabolic acidosis (e. decreased serum bicarbonate below

the infinite freedren range in the absence of chronic respiratory alkalosis) is associated with

caused by renal bicarbonate loss due to the inhibitory effect of topiramate in acido candidated

caused by renal bicarbonate loss due to the inhibitory effect of topiramate in pacco-controlled

citical bias and in the postmarketing period. Generally, topiramate-induced metabolic acidosis

citical bias and in the postmarketing period. Senerally, topiramate-induced metabolic acidosis

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Adults. The Incidence of persistent treatment-energent decreases in serum bicarbonate (levels in adults, the Incidence of persistent treatment-energent decreases in serum bicarbonate (levels in adults). The Incidence of persistent control of the Incidence of persistent control of the Incidence of persistent treatment-energent decreases in serum bicarbonate in adults in the epilepsy controlled clinical treatment-energent decreases in serum bicarbonate in adults in the epilepsy controlled clinical treatment-energent decreases in serum bicarbonate in adults in the epilepsy controlled clinical treatment-energent decreases in serum bicarbonate in adults in the epilepsy controlled clinical treatment-energent decreases in serum bicarbonate event 25% for 400 mg per day, and 0% for placebo and in the monotherapy trial was 1% for 50 mg per day, and 0% for placebo and in the monotherapy trial was 1% for 50 mg per day, and 1% for placebo and in the monotherapy trial was 1% for 50 mg per day, and 1% for placebo and in the monotherapy trial was 1% for 50 mg per day, and 1% for placebo and in the monotherapy trial was 1% for 50 mg per day. The monotherapy trial was 1% for 50 mg per day and 7% for formal per day.

Padiatic Palenta, 2 them. 2 the tear of April
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Padiatic Palenta, 2 them. 3 the tear of April
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Padiatic Palenta the tear of the tear

In pediatric patients (6 years to 15 years of age), the incidence of persistent treatment-emergent decreases in serum bloadhouse in the epilegey convolved clinical trial for monotherapy performed markedly abnormality on the persistent treatment and an advantage of the persistent treatment and an advantage of the persistent treatment of the persistent persistent

Pediatris. Patients (Under 2 Nears of Age)
Although Trokend XR : is no approved for use in patients less than 6 years of age with partial onest seizures, a study of topiramate and adjunctive use in patients under 2 years of age revealed that topiramate produced a metabolic acidosis that is notably greater in magnitude than that observed in controlled thatis in older children and adults. The mean treatment offference (25 m)

Body System/	Topirama	ite Dosage (mg 2DD-4DD	per day)
Body System/ Adverse Reaction ^c	Placebo (N=291)	(N=183)	6DD-1,DDE (N=414)
Body as a Whole-General Disorders			
Fatigue	13	15	30
Asthenia Back pain	4	6	3 3 2
Chest pain	3	4	2
Influenza-like symptoms	2	5 4 3 2 2 2 2 2	4
Leg pain Hot flushes	2	2	4
Allergy	1	5	3
Edema	1	2	1
Body odor	0	1	0
Rigors	0	1	<1
Central & Peripheral Nervous System Disor Dizziness	raers 15	25	32
Ataxia	15 7	16	14
Speech disorders/Related speech problems "	2	13	11
Paresthesia Nystagmus	4 7	11 10	19 11
Tremor	6	9	9
Language problems Coordination abnormal	1 2	6	10
Coordination abnormal	2	4	4
Hypoesthesia Gait abnormal	1	2	1
Muscle contractions involuntary	1	6 4 2 3 2 2	2 2
Stupor	0	2	1
Vertigo	1	1	2
Gastro-intestinal System Disorders		**	
Nausea Dyspepsia	8	10 7	12
Abdominal pain	6 4	6	6 7
Constipation	2	6 4 2 2	3
Gastroenteritis	1	2	1
Dry mouth Gingivitis	1 <1	1	4
GI disorder	<1	i	'n
Hearing and Vestibular Disorders			
Hearing decreased	1	2	1
Metabolic and Nutritional Disorders			
Weight decrease	3	9	13
Musculoskeletal System Disorders Myalqia	1	2	2
Skeletal pain	ó	1	ñ
Platelet, Bleeding & Clotting Disorders			
Epistaxis	1	2	1
Psychiatric Disorders			
Somnolence Nervousness	12 6	29 16	28 19
Psychomotor slowing	2	13	21
Difficulty with memory	3	12	14
Anorexia	4	10	12
Confusion Depression	3 4 5 5 2 2 2 2 1	11 5	14 13
Difficulty with concentration/attention	2	6	14
Mood problems	2	4	9
Agitation	2	4 3 3 3 3	3 3 3 3
Aggressive reaction Emotional liability	2	3	3
Cognitive problems	i	3	3
Libido decreased	1	2	
Apathy	1	1	<1 3 2
Depersonalization	11	1	2
Reproductive Disorders, Female Breast pain	2	4	0
Amenorrhea	1	2	2
Menorrhagia	0	2 2 2	1
Menstrual disorder	1	2	1
Reproductive Disorders, Male Prostatic disorder	-4	2	
Prostatic disorder Resistance Mechanism Disorders	<1		0
Infection	1	2	1
Infection viral	1	2	<1
Moniliasis	<1	111	0
Respiratory System Disorders	2		
Pharyngitis Rhinitis	6	6 7	3 6
Sinusitis	4	5	6
Dyspnea	i	1	2
Skin and Appendages Disorders			
Skin disorder	<1	2	1
Sweating increased Rash, erythematous	<1 <1	1	<1 <1
Special Senses Other, Disorders			- 51
Taste perversion	0	2	4
Urinary System Disorders			
Hematuria	1	2 2	<1
Urinary tract infection Micturition frequency	1	2	3 2
Micturium frequency Urinary incontinence	1	1 2	2
Urinary incontinence Urine abnormal	0	1	<1
Vision Disorders			
Vision abnormal	2	13	10
Diplopia	5	10	10
White Cell and RES Disorders Leukopenia	1	2	1

kg/day topiramate-placebo) was -5.9 mEq/L for bicarbonate. The Incidence of metabolic acidosis (defined by a serum bicarbonate less than 20 mEq/L) was 0% for placebo, 30% for 5 mg/kg/day, 50% for 15 mg/kg/day, and 45% for 25 mg/kg/day [see Use in Specific Populations/8.4]).

Sons for 1s inglyagost, 2nd 45% for 2s inglyagost yele use in Specinic Populations(4.4). Manifestations of Methabelia Actionias of Sons manifestations of acute or chronic metabolic acidosis may include hyperventilation, nonspecific symptoms such as fatigue and anorexia, or more severe sequelae including cardiac arritytimies or stupor. Chronic, untreated metabolic acidosis may increase the nisk for monospecific symptoms such as fatigue and anorexia, acidosis may increase the nisk for including acidosis in podiatria patients and/or anotepo, presi with an increase list of traditions. Chronic metabolic acidosis in podiatria patients may also reduce growth rates. A reduction in growth rate may exclude the president of the president patients may also reduce growth rates. A reduction in growth and bone-related sequelae has not been systematically investigated in long-term, placebo-controlled trials, reduced to the president of the president patients of the president patients of the president patients of the president patients and the president patients of the president patients of the president patients with epilepsy are likely to have different growth rates than normal infants. Rections in S. SQRESS for legistant every consideration of the president president patients with epilepsy are likely to have different growth rates than normal infants. Rections in S. SQRESS for legistant every consideration of the president patients with epilepsy are supported to the telestation in the recent from possible transfer of polymate to the fetus and might take cause metabolic acidosis in the reneate from possible transfer of polymate to the fetus see Warnings and Precautions (5.7) and the in Specific Populations (6.7).

Risk Mittgallon Strategies
Measurement of baseline and periodic serum bicarbonate during opinimate treatment is
because ment of baseline and periodic serum bicarbonate during opinimate treatment is
to exclude the control of the con

5.4 Interaction with Alcohol
In vitro data show that, in the presence of alcohol, the pattern of topiramate release from Trokendi
In vitro data show that, in the presence of alcohol, the pattern of topiramate with Trokendi XR* may
XR* capable is Sprifticatily altered. As a result, plasma levels of topiramate with Trokendi XR* may
XR* capable is Sprifticatily altered and subtherapeutic later in the day, Therefore, alcohol use
XR* capable to completely avoided within 6 house prior 1 and 6 loous after Trokendi XR* administration.

5.5 Suicidal Behavior and Ideation Antepelieptic drugs (AEDs) increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with any AED, including Trokendi XX** for these drugs for any indication. Patients the patients of the patients of the patients of the patients of the patients. The patients of the patients of the patients of the patients of the patients.

Pooled analyses of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 199 placebo-controlled placebo, the trials (mono- and adjunctive therapy) of 199 placebo-controlled placebo, the trials (mono- and adjunctive therapy) of 12 weeks, the estimated incidence rate of saiddal behavior or ideation among 27,853 AED 12 weeks, the estimated incidence are of saiddal behavior or ideation among 27,853 AED 199 placebo-controlled pla on suicide

The increased risk of suicidal thoughts or behavior with AEDs was observed as early as one week after starting drug treatment with AEDs and persisted for the duration of treatment assessed. Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior beyond 24 weeks could not be assessed.

The risk of suicidal thoughts or behavior was generally consistent among drugs in the data analyzed. The finding of increased risk with AEDs of varying mechanisms of action and across a range of indications suggests that the risk applies to all AEDs used for any indication. The risk did not vary substantially by age (5 to 100 years) in the clinical trials analyzed.

Table 1 shows absolute and relative risk by indication for all evaluated AEDs.

Indication	Placebo Patients with Events per 1,000 Patients	Drug Patients with Events per 1,000 Patients	Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events per 1,000 Patients
Epilepsy	1.0	3.4	3.5	2.4
Psychiatric	5.7	8.5	1.5	2.9
Other	1.0	1.8	1.9	0.9
Total	2.4	4.3	1.8	1.9

The relative risk for suicidal thoughts or behavior was higher in clinical trials for epilepsy than in clinical trials for psychiatric or other conditions, but the absolute risk differences were similar for the epilepsy and psychiatric indications.

Amone considering proscibion Tokendi XIIⁿ or any other AED must balance the risk of suicidal broughts or behavior with the risk of untrated literates, Education and the interest in the restrict of the restrict the restrict of the restri

Patients, their caregivers, and families should be informed that AEDs increase the risk of suicidal thoughts and behavior and should be advised of the need to be alert for the emergence or worsening of the signs and symptoms of depression, any unusual changes in monod or behavior or the emergence of suicidal thoughts, behavior or thoughts about self-harm. Behaviors of concern should be reported immediately to teathcare providers.

5.6 Cognitive/Neuropsychiatric Adverse Reactions
Adverse reactions most often associated with the use of topicantals and therefore expected to
associated with the use of Trivicent XXIV were related to the central nervous system and were
associated with the use of Trivicent XXIV were related to the central nervous system and were
there poemic action of the common three poemic actions are common to the common three poemic action of the common three poemics are common to the common three poemics and three poemics are common three poemics are common three poemics and three poemics are common three poemics are commo

*Patients in these adjunctive trials were receiving 1 to 2 concomitant anteplieptic drugs in addition to topicinate or placebo
*Values represent the percentage of patients reporting a given reaction. Patient may have reported more than one adverse reaction during the study and can be included in more than one *Adverse reactions propried by all least 14's of patients in the topicramate 200 mg to 400 mg per day group and more common than in the placebo group.

erse Reactions Observed in Adjunctive Therapy Trial in Adults with Partial Onset Seizures

Adverse Reschans. Observed in Adjunctive Therapy Trial in Adults wm return variety and the controlled passes and some services of the controlled passes and some services. Streether area. To placebe 2: potentiate 200 mp per day with a 25 mp per day starting days, increased by 25 mp per day such week for 8 weeks until the 200 mp per day maintenance doos war reached, and 3 broadmast 200 mp per day such as the controlled per day with a 50 mp per day such as the controlled per day with a 50 mp per day starting down, increased by 50 mp per day such week for 4 weeks until the 200 mp per day maintenance doos was reached. And 50 mp per day such week for 4 weeks until the 200 mp per day maintenance doos was reached and an administration of the concentration and per day with a 50 mp per day maintenance doos was reached and an administration of the concentration and per day with a 50 mp per day such week for 4 weeks until the 200 mp per day maintenance doos was reached and an administration of the concentration and per day with a 50 mp per day maintenance doos was reached and an administration of the concentration and per day with a 50 mp per day maintenance doos was reached and an administration of the concentration and per day with a 50 mp per day maintenance doos was reached and an administration of the concentration and per day with a 50 mp per day maintenance doos was reached and an administration of the concentration and per day with a 50 mp per day maintenance doos was reached and an administration of the concentration of the concentration and per day with a 50 mp per day with a 50 m

The incidence of adverse reactions (Table 5) did not differ significantly between the 2 topl regimens. Because the frequencies of adverse reactions reported in this study were m lower than those reported in the previous epilepsy studies, they cannot be directly compar data obtained in other studies.

able 5: Incidence of Adverse Reactions in Study 7 Topiramate Dosage (mg per day)

Body System/ Adverse Reaction ^o	Placebo (N=92)	200 (N=171)	- 1
Body as a Whole-General Disorders			
Fatigue	4	9	
Chest pain	1	2	
Cardiovascular Disorders, General			
Hypertension	0	2	
Central & Peripheral Nervous System Dis	orders		
Paresthesia	2	9	
Dizziness	4	7	
Tremor	4 2	3	
Hypoesthesia	0	3 2	
Leg cramps	Ö	2	- 1
Language problems	Ö	2	
Gastro-intestinal System Disorders			
Abdominal pain	3	5	
Constipation	Ö	4	
Diarrhea	1	2	
Dyspepsia	0	2 2 2	
Dry mouth	0	2	
Hearing and Vestibular Disorders			
Tinnitus	0	2	- 1
Metabolic and Nutritional Disorders			
Weight decrease	4	8	
Psychiatric Disorders			
Somnolence	9	15	

Adult Patients
Cognitive Related Dysfunction
The majority of cognitive-related adverse reactions were mild to moderate in severity, and they
frequently occurred in solicition. Rapid thration rate and higher initial dose were associated within
flapper incidences of these reactions. Many of these reactions contributed to windrawal from
reatment [see Adverse Reactions (6-17)].

in the adjunctive epilepsy controlled trials conducted with topiramate (using rapid titration to the adjunctive epilepsy) controlled trials conducted with topiramate (using rapid titration experienced one or more cognitive-related selvers received. The proposition of patients which for 400 mp end sy, 25% for 600 mp end sy, 65% of 800 md in 0,000 mp end sy, 65% of 800 md in 0,000 mp end sy, 65% of 100 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 md in 0,000 mp end sy, 65% of 100 mg e

In the monotherapy epilepsy controlled trial conducted with topiramate, the proportion of patient who experienced one or more cognitive-related adverse reactions was 19% for topiramate 50 m per day and 26% for 400 mg per day.

Psychiatric/Behavioral Disturbances (depression or mood) were dose-related for the epilepsy population treaded with toprimate [see Warnings and Precautions (5.6i)].

Somnolence/Faitgue were the adverse reactions most frequently reported during clinical trials Somnolence and fatigue were the adverse reactions most frequently reported during clinical trials of toptamate for adjunctive epilency. For the adjunctive epilency population, the incidence of the opinical control of the property of the control of the control of the control of the control of incidence of fatigue was dose-related and increased at designs above 400 mp per day, the incidence of somnolence was dose-related 9% for the 50 mp per day group and 15% for the 400 mp per day group and the incidence of somnolence was dose-related 9% for the 50 mp per day group and 15% for the 400 mp per day group) and the incidence of fatigue was comparable in both treatment groups (15% each). For other uses not approved for Trokend XR**, somnolence and latigue were more common in the triallor places.

Additional nonspecific CNS events commonly observed with topiramate in the adjunctive epilepsy population include dizziness or ataxia.

Population Insured uscerness or waterPediatric Patients
In double-billed adjunctive therapy and monotherapy spilepsy clinical studies conducted with
In double-billed adjunctive therapy and monotherapy spilepsy clinical studies conducted with
ordermated, the indexences of cognitive-insurance properties and properties of the most conducted with
order the properties of the most conducted with the properties of the most requestly reported encopsychiatric reactions in pediatric pleasest suring
adjunctive therapy double-billed studies were sommetices and fatigue. The most frequently
adjunctive therapy double-billed studies were sommetical and fatigue. The most frequently
adjunctive therapy double-billed study were headache, dizziness, and resid,
and sommetice.

No patients discontinued freatment due to any adverse eyents in the adjunctive epilops double-light drists in the monotherapy epilopsy double-hight drist onducted with immediate release beplarmate product, I pediatric patient (2%) in the 60 mp per day group and T pediatric patients (12%) in the 400 mp per day group discontinued treatment due to any adverse events The most common adverse reaction associated with discontinuation of therapy was difficulty with concentration/attention, all occurred in the 400 mp per day group.

5.7 Febr Torkity
To

Consider the benefits and risks of topiramate when administering the drug in women of childbearing potential, particularly when topiramate is considered for a condition not usually associated with permanent injury of early less less in Specific Poulurions (8, 1), Topiramate should be used during preparacy only if the potential benefit outweighs the potential risk. If this drug is used during preparancy only if the patient becomes preparant while skilling list god units of the patient should be informed of the potential hazard to a fetus [see Use in Specific Populations (8, 1) and (8, 9)].

5.8 Withdrawal of Antiepileptic Drugs in patients with or without a history of setures or epilepsy, antiepileptic drugs including Trokendi XR² should be gradually withdrawn to minimize the potential for setures or increased seture frequency [see Clinical Studies (1/4)]. In situations where rapid withdrawal of Trokend XR² is medically equality appropriate monthoring is recommending.

5.9 Hyperammonemia and Encephalopathy

Hyperammonemia/Encephalopathy Without Concomitant Valproic Acid (VPA)

TITLE MILLINGUISMENT CONTRACTION AND A CONTRACT AND

Hyperammonemia with and without encephalopathy has also been observed in post reports in patients who were taking topiramate without concomitant valproic acid (Vi

Hyperammonemia/Encephalopathy With Concomitant Valoroic Acid (VPA)

Concomitant administration of topiramate and valproic acid (VPA) has been associated with hyperammonemia with or without encephalopathy in patients who have tolerated either drug

Table 7: Incidence (%) of Adverse Reaction in Placebo-Controlled, Adjunctive Epilepsy Trial in Pediatric Patients (Ages 2 Years to 16 Years)*** (Study 8)

Body System/ Adverse Reaction	Placebo (N=101)	Topiramate (N=98)
Body as a Whole-General Disorders		
Fatique	. 5	16
Injury	13	14
Allergic reaction	1	2
Back pain	ó	1
Pallor	ŭ	1
Cardiovascular Disorders, General		
Hypertension	0	1
Central & Peripheral Nervous System Disorde	rs	
Gait abnormal	5	8
Ataxia	2	6
Hyperkinesia	Ä	5
Dizziness	3	4
Speech disorders/Related speech problems	4 2 2 0	4
	4	
Hyporeflexia	U	2
Convulsions grand mal	Ö	1
Fecal incontinence	0	1
Paresthesia	0	11
Gastro-Intestinal System Disorders	-	
Nausea	5	6
Saliva Increased	4	6
Constipation	4	5
Gastroenteritis	2	3
Dysphagia	ō	1
Flatulence	Ö	1
Gastroesophageal reflux	ő	i
Glossitis	ŭ	i
Gum hyperplasia	ő	i
Heart Rate and Rhythm Disorders		
Bradycardia	0	1
Metabolic and Nutritional Disorders		
Weight decrease	1	9
Thirst	1	2
Hypoglycemia	0	1
Weight increase	Ö	1
Platelet, Bleeding & Clotting Disorders		
Purpura	4	8
Epistaxis	1	4
Hematoma	Ó	1
Prothrombin increased	ō	i
Thrombocytopenia	ő	i
Psychiatric Disorders		
Somnolence	16	26
Anorexia	15	24
Nervousness		
	7	14
Personality disorder (Behavior Problems)	9	11
Difficulty with concentration/attention	2	10

12 weeks, the estimated incidence rate of suicidal behavior or ideation among 27,863 AED-treated patients was 0.43%, compared to 0.24% among 16,029 placebo-treated patients, representing an increase of approximately one case of suicidal thinking or behavior for every 500 patients treated. There were four suicides in drug-treated patients in the trials and none in placebo-treated patients, but the number is too small to allow any conclusion about drug effect

The increased risk of suicidal thoughts or behavior with AEDs was observed as early as one week after starting drug treatment with AEDs and persisted for the duration of treatment assessed Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior beyond 24 weeks could not be assessed.

The risk of suicidal thoughts or behavior was generally consistent among drugs in the data analyzed. The finding of increased risk with AEDs of varying mechanisms of action and across a range of indications suggests that the risk applies to all AEDs used for any indication. The risk did not vary substantially by age (5 to 100 years) in the clinical trials analyzed.

Table 1 shows absolute and relative risk by indication for all evaluated AEDs

able I. hisk i	Jy muication for Anti	epileptic brugs in ti	te Pooled Analysis	
Indication	Placebo Patients with Events per 1,000 Patients	Drug Patients with Events per 1,000 Patients	Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events per 1,000 Patients
Epilepsy	1.0	3.4	3.5	2.4
Psychiatric	5.7	8.5	1.5	2.9
Dther	1.0	1.8	1.9	0.9

4.3 The relative risk for sulcidal thoughts or behavior was higher in clinical trials for epilepsy than in clinical trials for psychiatric or other conditions, but the absolute risk differences were similar for the epilepsy and psychiatric indications.

Anyone considering prescribing Trokendi XR" or any other AED must balance the risk of suicidal thoughts of behavior with the risk of untreated illness, Epilepsy and many other illnesses for increased risk of suicidal thoughts and rebetwor. Should suicidal thoughts and therefore, and the research of the rebetwor formed provided throughts and rebetwor. Should suicidal throughts and therefore merge during treatment, the prescriber needs to consider whether the emergence of these symptoms in any joint patter may be related to the intense being treated.

Patients, their caregivers, and families should be informed that AEDs increase the risk of suicidal thoughts and behavior and should be advised of the need to be alert for the emergence or worsening of the signs and symptoms of depression, any unusual changes in mood or behavior or the emergence of suicidal thoughts, behavior or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare providers.

5.6 Cognitive/Neuropsychiatric Adverse Reactions
Adverse reactions most often associated with the use of topiranals, and therefore expected to
Adverse reactions most often associated with the use of topiranals, and therefore expected in the
Adverse reactions most often associated with the property of the County of the C

*Palietts in these adjunctive trials were receiving 1 to 2 concomitant antiepileptic drugs in addition to fourtament or pleate to topfarmate or present the percentage of patients reporting a given reaction. Patient may have reported more than not adverser exclosed onlying the study and can be included in more than one of the present of the study of the present of the study of the

Adverse Reactions Observed in Adjunctive Therapy Trial in Adults with Partial Onset Seizures (Study 7)
Study 7 was a randomized. Adultion Patrial Conset Seizures

Agheties, (Indications, Underweit in Adulactive Interior, Tinal in Adulactive Indication (Indicated Indicated Indica antiepileptic drug.

The incidence of adverse reactions (Table 5) did not differ significantly between the 2 topiramate regimens. Because the frequencies of adverse reactions reported in this study were markedyl lower than those reported in the previous epilepsy studies, they cannot be directly compared with data obtained in other studies.

Body System/ Idverse Reaction®	Topiramate Dosa Placebo (N=92)	age (mg per day) 200 (N=171)
ody as a Whole-General Disorders		
atigue	4	9
hest pain	1	2
ardiovascular Disorders, General		
lypertension	0	2
entral & Peripheral Nervous System Dis	sorders	
aresthesia	2	9
lizziness	4	7
remor	2	3
lypoesthesia	0	3 2 2
eg cramps	0	2
anguage problems	0	2
lastro-intestinal System Disorders		
bdominal pain	3	5
Constination	ő	4
liarrhea	1	2
lyspepsia	ó	2 2
ry mouth	Ö	2
learing and Vestibular Disorders		
innitus	0	2
Metabolic and Nutritional Disorders		
/eight decrease	4	8
sychiatric Disorders		
omnolence	9	15
norexia	7	9
lervousness	2	9
lifficulty with concentration/attention	õ	5
nsomnia	3	4
lifficulty with memory	1	2
ggressive reaction	ó	2
espiratory System Disorders		
hinitis	0	4
Irinary System Disorders	-	
vstitis	0	2
ision Disorder		
ision disorder liplopia	0	2
ision abnormal	0	2 2

Patients in these adjunctive trials were receiving 1 to 2 concomitant antiepleptic drugs in addition to topiarmate or placebo Values represent the percentage of patients reporting a given adverse reaction. Patients may have reported more than one adverse reaction during the study and can be included in more than one adverse reaction careful by at least 4% of patients in the topiramate 200 mg per day group and more common than in the placebo group.

Table 6: Incidence (%) of Dose-Related Adverse Reactions From Placebo-Controlled, Adjunctive Trials in Adults With Partial Doset Seizures (Studies 2 through 719

	(Topiramate) Dosage (mg per day)							
Adverse Reaction	Placebo (N=216)	200 (N=45)	400 (N=68)	600-1,000 (N=414)				
Fatigue	13	11	12	30				
Nervousness	7	13	18	19				
Difficulty with concentration/attention	1	7	9	14				
Confusion	4	9	10	14				
Depression	6	9	7	13				
Anorexia	4	4	6	12				
Language Problems	<1	2	9	10				
Anxiety	6	2	3	10				
Mood Problems	2	0	6	9				
Weight Decrease	3	4	9	13				

for other adult indications or for pediatric indications

processing the most request reported in terrupsychiatric reactions in pediatric patients burning adjunctive therapy double-blind studies were somnoience and fatigue. The most frequenti reported neuropsychiatric reactions in pediatric patients in the 50 mg per day and 400 mg pe day groups during the monotherapy double-blind study were headache, dizziness, anorexia and somnoience.

No patients discontinued treatment due to any owners events in the adjunctive epilegoy consolub-libility data, in the monotherapy galaxyy coates shall not a consoured with numediate release topinanate product. I pediatric patient (2%) in the 50 may be a consoluble pediate (12%) in the 400 mg per day group discontinued treatment due to any adverse events. The most common adverse reaction associated with discontinuation of therapy was difficulty with concentration itatiention; all occurred in the 400 mg per day group.

5.7 Fetal Toxicity Topiramate can o

5.7 Fetal Tuxicity
Opinifante can cause fetal harm when administered to a pregnant woman. Data from
pregnancy registries indicate that infants exposed to topinamate in utero have an increased risk
for cleft hip and/or cleft plastic grid cells. When multiple species of pregnant animals reverbed
topinamate at clinically relevant doses, structural malformations, including cranidacial defects,
and reduced fetal registra occurred in orispring [see due in Specific Populations (d. 17)].

5.8 Withdrawn of Antiquippis Organ
In patient with a mitting the department or galacy; antiquippit drugs including Troland
NR should be gradually withdrawn to minimize the potential for secures or increased seturor
frequency [see Clinical School (rd.)] in situations where rapid withdrawn of Trokend XR* is
medically required, appropriate monitoring is recommended.

5.9 Hyperammonemia and Encephalopathy

Hyperammonemia/Encephalopathy Without Concomitant Valproic Acid (VPA)

Transmitted and the second sec

Hyperammonemia with and without encephalopathy has also been observed in postma reports in patients who were taking topiramate without concomitant valproic acid (VPA

Hyperammonemia/Encephalopathy With Concomitant Valproic Acid (VPA)

Concomitant administration of topiramate and valproic acid (VPA) has been associated with hyperammonemia with or without encephalopathy in patients who have tolerated either drug Table 7: Incidence (%) of Adverse Reaction in Placebo-Controlled, Adjunctive Epilepsy Trial in Redigitie Patients (App. 2 Vene to 15 Vene) #5 (Study 9)

Body System/ Adverse Reaction	Placebo (N=101)	Topiramate (N=98)
Body as a Whole-General Disorders		
Fatigue Injury	5 13	16
Allergic reaction	13	14 2
8ack pain	ó	ī
Pallor	Ō	1
Cardiovascular Disorders, General Hypertension	0	1
Central & Peripheral Nervous System Disorde	irs	
Gait abnormal Ataxia	5 2	8
Hyperkinesia	4 .	6
Dizziness .	2	5 4
Speech disorders/Related speech problems	2 2	4
Hyporeflexia	0	2
Convulsions grand mal Fecal incontinence	0	1
Paresthesia	0	1
Gastro-Intestinal System Disorders		
Nausea	5	6
Saliva increased	4	6
Constipation Gastroenteritis	4 2	5 3
Dysphagia	0	1
Flatulence	0	i
Gastroesophageal reflux	Ö	1
Glossitis	0	1
Gum hyperplasia	0	11
Heart Rate and Rhythm Disorders Bradycardia	0	1
Metabolic and Nutritional Disorders Weight decrease		
Thirst	1	9 2
Hypoglycemia	ó	1
Weight increase	ŏ	i
Platelet, Bleeding & Clotting Disorders		
Purpura	4	8
Epistaxis	1	4
Hematoma	0	1
Prothrombin increased Thrombocytopenia	0	1
Psychiatric Disorders		
Somnolence	16	26
Anorexia	15	24
Nervousness	7	14 .
Personality disorder (Behavior Problems)	9	11
Difficulty with concentration/attention Aggressive reaction	2	10 9
Insomnia	7	8
Difficulty with memory	ó	5
Confusion	3	4
Psychomotor slowing	2	3
Appetite increased	0	1
Neurosis Reproductive Disorders, Female	0	1
Leukorrhea	0	2
Resistance Mechanism Disorders Infection viral	3	7
Respiratory System Disorders		
Pneumonia Respiratory disorder	1	5
Respiratory disorder	0	1
Skin and Appendages Disorders Skin Disorder	2	
Alopecia	1	3 2
Dermatitis	0	2 2
Hypertrichosis	1	2
Rash erythematous	0	2
Eczema	0	1
Seborrhea Skin discoloration	0	1
Urinary System Disorders		
Urinary incontinence	2	4
Nocturia	õ	i
Vision Disorders		
Eye abnormality	1	2
Vision abnormal	1	2
Diplopia	0	1
Lacrimation abnormal	0	1

*Platients in these adjunctive trials were receiving 1 to 2 concomitant antiepliestic drugs in addition to toriamate or placebo "Values represent the percentage of patients reporting a given adverse reaction. Patients may have reported more than one adverse rescribed indrugs the study and can be included in more than *Reactions that occurred in at least 1% of topinante-treated patients and occurred more frequently in toriamate-treated than place-to-treated patients.

0

White Cell and RES Disorders

Laboratory Abnormalities

Topiramate decreases serum bicarbonate [see Warnings and Precautions (5.3)]

Immediate-release topiramate treatment was associated with changes in several clinical laboratory analytes in randomized, double-blind, placebo-controlled studies. Similar effects should be anticipated with use of Trokendi XP $^{\infty}$.

Controlled trials of adjunctive topiramate treatment of adults for partial onset seizures showed an increased incidence of markedly decreased serum phosphorus (6% topiramate, 2% placebo), markedly increased serum lakiliane phosphatase (5% topiramate, 1% placebo) and decreased serum potassium (0.4 % topiramate, 0.1 % placebo). The clinical significance of these abnormalities has not been clearly established.

Changes in several clinical laboratory results (increased creatinine, BUN, alkaline phosphatase, total protein, total eosinophil count and decreased potassium) have been observed in a clinical investigational program in very young (2 years and younger) pediatric patients who were treated with adjunctive topiramate for partial onset solures (see *Use in Specific Populations* (8.4)).

Topiramate treatment produced a dose-related increased shift in serum creatinine from normal at baseline to an increased value at the end of 4 months treatment in adolescent patients (ages 12 years 10 f 9 years) in a double-bind, placeb-controlled study. The incidence of these abnormal shifts was 4% for placebo, 4% for 50 mg, and 18% for 100 mg.

ramate treatment with or without concomitant valproic acid (VPA) can cause hyperami or without encephalopathy [see Warnings and Precautions (5.9)].

6.2 Pestanakating Experience
The following adverse reactions have been identified during post-approval use of topiramate.
Because these reactions are reported voluntarily from a population of uncertain size, it is not lavays possible to reliably estimate the requestor or establish a causal relationship to drug durings possible to reliably estimate them the requestor or establish a causal relationship to drug during possible to relative them to the relation of the relatio

7 DRUG INTERACTIONS

7.1 Alcohol Alcohol use is contraindicated within 6 hours prior to and 6 hours after Trokendi XR[™] administration [see Contraindications (4) and Warnings and Precautions (5.4f).

7.2 Dral Contraceptives

Exposure to ethinyl estadolo was statistically significantly decreased when topiramat doses above 200 mg) was given as adjunctive therapy in patients taking valproic acid. How norethindrone exposure was not significantly affected.

in another pharmacokinetic interaction study in healthy volunteers with a concomitantly administered combination oral contraceptive product containing 1 mg norethinidation (RET) plus 35 mg ething lestradol (EE), topismate, given in the absence of other medications at doses of 95 to 200 mg per day, was not associated with statistically significant changes in mean exposure to other omport of the oral contraceptive.

The possibility of decreased contraceptive efficacy and increased breakthrough bleeding should be considered in patients taking combination oral contraceptive products with Trokenful XR²-Patients taking exponencement or patients products with trokenful XR²-Patients taking exponencement products products and patients. Contraceptive efficacy can be decreased even in the absence of breakthrough bleeding (see Chinal Pharmacology 17.2.9).

7.3 Antiepileptic Drugs Concomitant administration of phenytoin or carbamazepine with topiramate decreased plasma concentrations of topiramate [see Clinical Pharmacology (12.3)].

Concernition semi-intensition of valence self- and topic mank is been exceled with hyperammonamis with any without, exceledationary. Occardinated stiministrated and instruction of hyperamical with valence and the self- and t

Numerous AEDs are substrates of the CPP enzyme system. In vitro studies indicate that topiramate does not inhibit enzyme activity for CPP1A2, CPP2A6, CPP2B6, CPP2B6, CPP2B6, CPP2B6, CPP2B445 isouryme. In vitro studies indicate that immediate release topiramate is a mild inhibitor of CPP2C19 and a mild inducer of CPP2B4. The same drug interactions can be expected with the use of Triokena XPB.

7.4 CHS Depressants
Topiramate is a CNS depressant. Concomitant administration of topiramate with other CNS
depressant dups or alcohol can result in significant CNS depression [see Warnings and
Procautions (5.13)].

7.5 Other Curbonic Ashydras phibitors:
Occomment use of indomants a scheduler subylase inhibitor, with any other carbonic anhydrase inhibitor (leg, zonisamide, acetazolamide or discharphenamide), may increase the severity of metabolic acidosia and may also increases the risk of kidny stone formation. Patient should be metabolic acidosia with mixed XXI size in a consistency of metabolic acidosis within Tokond XXI size in concentrative with another carbonic anhydrase enhabitic peres Direct Pharmacology (1 g/g).

7.6 Metformin
Topiramate treatment can frequently cause metabolic acidosis, a condition for which the
use of metformin is contraindicated. The concomitant use of Trokendi XR⁻¹ and metformin is
contraindicated in patients with metabolic acidosis [see Glinical Pharmacology (12.3)].

7.7 Lithium In patients, there was an observed increase in systemic exposure of lithium following topiramal doses of up to 600 mg per day. Lithium levels should be monitored when co-administered will high-dose Trokendi XR* [see Clinical Pharmacology (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
Pregnancy Category D [see Warnings and Precautions (5.7)]

Pagilazuri A ding-drug interaction dudy conducted in healthy volunteers evaluated the steady-state pharmacokinetics of topicamete and picpilazure when administered usine and concomitantly a 15% decrases in the AUC, of picpilazure with no alternation in C_m, was observed. This finding was not statistically significant. In addition, a 13% and 16% decrease in C_m, and AUC, and AUC, and the active kerb-metabolite was noted as well as a 65% decrease in C_m, and AUC, and the active kerb-metabolite. The clinical significance of these findings is not known.

When Trokendi XR* is added to pioglitazone therapy or pioglitazone is added to Troken therapy, careful attention should be given to the routine monitoring of patients for ad control of their diabetic disease state.*

Ophorical Adaption Study conducted in patients with type 2 disbetes evaluated the steady-state pharmacokinetics of globurde (6 mg per day) area earl concomitantly with topramate (150 mg per day). There was a 22% discress in Co., and 25% rection in AUC, for globurde during topramate administration. Systemic exposure (AUC) of the active metabolites, 4-frans-hydroxy by 18% and 25%, respectively, the stacky-state pharmacokinetics of topramate were unaffected by concomitant administration of glyburde.

Lithium in patients, the pharmacokinetics of lithium were unaffected during treatment with topiramate at doses of 200 mg per day; however, there was an observed increase in systemic exposure of lithium (27% for C_m and 25% for AUC) following loginariane doses up to 600 mg per day. Lithium levels should be monitored when co-administered with high-dose Trokendi XR" [see Drog Interactions (7.7)].

наюреною! The pharmacokinetics of a single dose of haloperidol (5 mg) were not affected following multiple dosing of topiramate (100 mg every 12 hr) in 13 healthy adults (6 males, 7 females).

Amurphyline
There was a 12% increase in AUC and C_{2m}, for amitriphyline (25 mg per day) in 18 normal subjects
(9 males, 9 females) receiving 200 mg per day of topiramate. Some subjects may experience a
large increase in amitriphyline concentration in the presence of Trokend XR* and any adjustments
in amitriphyline does should be made according to the patient's clinical response and not on the
basis of plasma devels.

Sumatriptan
Multiple dosing of topiramate (100 mg every 12 hrs) in 24 healthy volunteers (14 males,
10 females) did not affect the pharmacokinetics of single-dose sumatriptan either orally (100 mg)
or subcutaneously (6 mg).

Rispatificacy. When administered concomitantly with topiramate at escalating doses of 100, 250, and 400 mg per day, there was a reduction in risperidorse systemic exposure (16% and 33% for steady-state AUL at the 200 and 000 mg per day doses of topiramate). No intentions of 51-yidnovinysperidone resulted even observed. Coadministration of topiramate 400 mg per day with risperidone resulted results of the control of the con

Propranolol
Multiple dosing of topiramate (200 mg per day) in 34 healthy volunteers (17 males, 17 females)
did not affect the pharmacokinetics of propranolol following daily 160 mg doses. Propranolol
doses of 160 mg per day in 39 volunteers (27 males, 12 females) had no effect on the exposure

Prognancy Registry
Patients should be encouraged to enroll in the North American Antisplieptic Drug (NAAED)
Prognancy Registry if they become pregnant. This registry is collecting information about the safety of antisplieptic Grugs during pregnancy. To enroll, gatients can call the bit-free number 1586-823-3234 information about the North American Drug Prognancy Registry can be found at http://www.massgeneral.org/ked/.

Topiramate can cause fetal harm when administered to a pregnant woman. Data from pregnancy registres indicate that infants exposed to believants in order to two increased risk for cert if you are a considerable of the certain control of the certain con

Topiramate treatment can cause metabolic acidosis [see Warnings and Precautions (5.3)]. The effect of logiramate-induced metabolic acidosis has not been studied in pregnancy, however, metabolic acidosis has not been studied in pregnancy, however, metabolic acidosis cause decreased their givens. The pregnancy acidosis cause decreased their givens, metabolic acidosis and treated as in the monoregorant state (see Warnings and Precautions (3.3). Newtown of mothers treated with bioplamate should be monitored for metabolic acidosis and treated as in the nonpregnant state (see Warnings and Precautions (3.3). Newtown of mothers treated with bioplamate should be monitored for metabolic acidosis because of transfer of topiramate to the fetus and possible occurrence of transfer metabolic acidosis tolowing plant.

Adminition has demonstrated selective developmental toxicity, including teratogenicity, in multiple animal species at clinically relevant closes. When oral doses of 20 mg/kg, 100 mg/kg, 400 mg/kg were administed to repeate thic devine, the period of orangenesis, the incidence of test mathomations (primarily cranifocial defects) was increased at all obsess, on a mg/m basis related by weight said selected in the period of orangenesis on a mg/m basis related by weight said selected in selection with decreased maternal body weight gain.

in rat studies (oral doses of 20 mg/kg, 100 mg/kg, and 500 mg/kg or 0.2 mg/kg, 2.5 mg/kg, 30 mg/kg, and 400 mg/kg, the frequency of limb matternations (ectrodectyly, micromella, and enable) was increased among the orbiging of dame treated with 40 mg/kg (10 micromella, and enable) was increased among the orbiging of dame treated with 40 mg/kg (10 micromella, and enable) was increased in the orbiging of dame treated with 40 mg/kg (10 micromella, and enable) was observed at doses as few as 20 mg/kg (3 micromella increased in fraction of structural variations) was observed at doses as few as 20 mg/kg (3 micromella increased increased) was observed at doses as few as 20 mg/kg (3 micromella increased increased). in rabbit studies (20 mg/kg, 60 mg/kg, and 180 mg/kg or 10 mg/kg, 35 mg/kg, and 120 mg/kg orally during organogenesis, embryo/fetal mortality was increased at 35 mg/kg (2 times the RHD on a mg/m² bassi) or greater, and teratogenic effects (primarily rib and vertetarial malformations) were observed at 120 mg/kg (6 times the RHD on a mg/m² bassi). Evidence of maternal floxicity (elecreased body weight pain, clinical signs, and/or mortality was sent at 180 mg/m² bassis.

When female rats were treated during the latter part of pestation and throughout leatation (C.2 mg/kg, 4 mg/kg, 20 mg/kg, and 10 mg/kg or 2.2 du acid 000 mg/kg, or 10 mg/kg or 10 mg/kg

In a rat embryo/fetal development study with a postnatal component (0.2 mg/kg, 2.5 mg/kg, 30 mg/kg, or 400 mg/kg during organogenesis; nated above), pups exhibited delayed physical development at 400 mg/kg (10 times the RHD on a mg/m² bassis and persistent reductions in body weight gain at 30 mg/kg (1 times the RHD on a mg/m² bassis) and higher.

8.2 Labor and Delivery
Although the effect of topiramate on labor and delivery in humans has not been established, the development of topiramate-induced metabolic acidosis in the mother and/or in the fetus might affect the fetus' ability to tolerate labor (see Use In Specific Populations (8.1)). 8.3 Nursing Mothers

Linited data on 5 breastfeeding infants exposed to topiramate showed infant plasma topiramate
levels equal to 1-20% of the maternal plasma level. The effects of this exposure on infants are
unknown. Caution should be exercised when Trokendi XR[™] is administered to a nursing woman.

8.4 Pediatric Use Seizures in Pediatric Patients 6 Years of Age and Older

Because the eapsule must be swallowed whole, and may not be sprinkled on food, crushed or chewed, Trokendi XR™ is recommended only for children age 6 or older.

The safety and effectiveness of Trokendi XR™ in pediatric patients is based on controlled tri with immediate-release topiramate [see Clinical Studies (14)].

The adverse reactions (both common and serious) in pediatric patients are similar to those seen in adults [see Warnings and Precautions (5) and Adverse Reactions (6)].

These include, but are not limited to:

• olipolydrosis and hyporthermia [see Warnings and Precautions (5.2)],

• dose-related increased incidence of metabolic acidosis [see Warnings and Precautions (5.3)],

• dose-related increased incidence of hyperammonemia [see Warnings and Precautions (5.3)].

Study in Patients with Eulipsey
In a solid profile of the Committee of the 13 NON-CLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility

Carcinopenesis
An increase in urinary bladder tumors was observed in mice given topiramate (20 mg/kg, An increase) and urinary bladder tumor and the properties of the propert

No evidence of carcinogenicity was seen in rats following oral administration of topi 2 years at doses up to 120 mg/kg (approximately 3 times the RHD on a mg/m² basis).

Magagenesis Topicament ein of demonstrate genotoxic potential when tested in a hattery of in vitro and in vivo Topicament ein or of demonstrate genotoxic potential when tested in a hattery of in vitro and in vivo assays. Topicament was not mudagenic in the Arnes test or the in vitro mouse lymphoma assay; of the orthodoxic mouse produced DNA symbosis in rat haped orse in vitro and it did not increase chromosomal aberrations in human lymphocytes in vitro or in rat bone marrow in vivo.

impairment of Fertility
No adverse effects on male or female fertility were observed in rats at doses up to 100 mg/kg
(2.5 times the RHO on a mg/m² basis).

14 CLINICAL STUDIES

14.1 Bridging Study to Demonstrate Pharmacokinetic Equivalence between Exte Release and Immediate-Release Topiramate Formulations

The basis for approval of the extended-release formulation (Trokendi XR**) included the studies described below using an immediate-release formulation and the demonstration of the pharmacokinetic equivalence of Trokendi XR** to immediate-release toprimate through the autoriate of concentrations and cumulative AUCs at multiple time points [see *Clinical Pharmacology* (12.6)]. The clinical studies described in the following sections were conducted using immediate topiramate.

14.2 Monotherapy Treatment in Patients with Partial Doset or Primary Generalized Tools Seizures

<u>Adults and Pediatric Patients 10 Years of Age and Older</u>
The effectiveness of topiramate as initial monotherapy in adults and children 10 years of age

in another pharmacokinetic interaction study in healthy volunteers with a concomitantly administered combination and contraceptive product containing 1 mg norethindrone (NET) plus 55 mg ethinyl estradio (EE), lopramate, given in the absence of other medications at doses of 50 to 200 mg per day, was not associated with statistically significant changes in mean exposure to either component of the and contraceptive.

The possibility of decreased contraceptive efficacy and increased breakthrough bleeding should be considered in patients taking combination oral contraceptive products with Trokendi XR*. Patients taking setrogen-containing contraceptives should be asked to report any change in their bleeding patients. Contraceptive efficacy can be decreased even in the absence of breakthrough bleeding lase Cinical Pharmacology (12.3).

7.3 Antiepileptic Drugs Concomitant administration of phenytoin or carbamazepine with topiramate decreased plasma concentrations of topiramate Isee Clinical Pharmacology (12.3)].

Concomitant administration of valproic acid and topinimate has been associated with hyperaminosemia with an elimbora encephalogality. Concomitant administration of optimizate to plantante or the property of the in patients who have been determined the property of the

Numerous AEDs are substrates of the CYP enzyms system. In vitro studies indicate that topiramate does not hithit enzyme activity for CYP142, CYP246, CYP226, CYP234, The same drug interactions can be expected with the use of Tokenet AEV.

7.4 CNS Depressants
Topiramate is a CNS depressant. Concomitant administration of topiramate with other CNS
depressant drugs or alcohol can result in significant CNS depression [see Warnings and
Precaudions (5.13)].

7.5 Other Curbonic Anhytrase Inhibitors
Deformed the State of Stat

To matter treatment can frequently cause metabolic acidosis, a condition for which is logifamate treatment can frequently cause metabolic acidosis, a condition for which is use of metformin is contraindicated. The concomitant use of Trokendi XR" and metformin contraindicated in patients with metabolic acidosis [see Clinical Pharmacology (12.3)].

In patients, there was an observed increase in systemic exposure of lithium following topira doses of up to 600 mg per day. Lithium levels should be monitored when co-administered high-dose Trokendi XR" (see *Clinical Pharmacology* (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
Pregnancy Category D [see Warnings and Precautions (5.7)]

Plogitization A drug-drug interaction study conducted in healthy volunteers evaluated the steady-state phermaconimistics of topinamist and piopitization when administered atons and concomitarily, from the property of the finding was not estatically significant in addition, a 175 and 176 Secressis on Fig., and AUCs, respectively, of the active hydroxy-metabolite was noted as well as a 60% decrease in Cap., and AUCs, AUCs, of the active the-dealoid. In the clinical significance of these findings is not known.

When Trokendi XR^{∞} is added to pioglitazone therapy or pioglitazone is added to Trokendi XR^{∞} therapy, careful attention should be given to the routine monitoring of patients for adequate control of their diabetic disease state.

Gibutine.

Activation pinteraction study conducted in patients with type 2 diabetes evaluated the clearly-state Activation pinteraction study conducted in patients with type 2 diabetes evaluated the clearly-state Activation study. Consideration study, for production study, for state administration. Systemic exposure (ALIX) of the active metabolities, 4-trans-hydroxy glytudine (AII) and 2-chy-hydroxy/glytudine state of the state of t

Lithium to be a proper section of the control of th

Haloperidol
The pharmacokinetics of a single dose of haloperidol (6 mg) were not affected following multiple dosing of topiramate (100 mg every 12 hr) in 13 healthy adults (6 males, 7 females).

Amitrophics
There was a 15th increase in AUS and C_m for amitrophiline (25 mg par day) in 18 normal subjects
(8 mains 4) Stemates proching 200 mg per day of topramate. Some subjects may experience a
range increase in amitrophile concentration in the presence of Trokend XIX* and any disturbents
in amitrophile does should be made according to the patient's clinical response and not on the
basis of pleasma testing.

Sumatriptan Multiple dosing of topiramate (100 mg every 12 hrs) in 24 healthy volunteers (14 males, 10 lemales) did not affect the pharmacokinetics of single-dose sumatriptan either draily (100 mg) or subcutaneously (6 mg).

Risparinions
When administration and the process of the process of 100, 250, and 400 mg per day, there was a reduction in risperiodee systemic exposure (16% and 33% for stately-state value of the process of the proc

Propranolol Multiple dosing of topiramate (200 mg per day) in 34 healthy volunteers (17 males, 17 females) did not affect the pharmacokinetics of propranolol following daily 160 mg doses. Propranolol class of 150 mg per day in 39 volunteers (27 males, 12 lemales) had no effect on the exposure to beprenate at a few of 200 mg per day of polyramitat.

Ditystropopatanire Membras (200 mg per day) in 24 healthy voluntéers (12 maies, 12 famales) Membras (200 mg per day) in 24 healthy voluntéers (12 maies, 12 famales) did not affect the pharmacokinétics of a 1 mg subcharanous dose of ditysforespotamines Similarly, a 1 mg subcharanous obse of ditysforespotamine did not affect the pharmacokinetics of a 200 mg per day dose of topiramate in the same study.

Dilitizen

O-administration of dilitizen (240 mg Cardizen CDF) with topicamate (150 mg per day) resulted.
O-administration of dilitizen (240 mg Cardizen CDF) with topicamate (150 mg per day) resulted clearase in C., and 15% (screase in dilitizen AUC, 27% excrease).

O-administration of topicamate with dilitizen CDF and on effect on N-deembyl dilitizen AUC, and dilitizen of topicamate with dilitizen resulted in a 16% increase in C._{m.} and a 19% increase in AUC, of topicamate.

Veniataxine Multiple dosing of topiramate (150 mg per day) in healthy volunteers did not affect Multiple dosing of venialaxine or 0-desmethyl venialaxine. Multiple dosing of venialax (150 mg) did not affect the pharmacokinetics of topiramate.

Other Carbonic Anhydrase Inhibitors
Concomiliant use of Triokendi XRT², a carbonic anhydrase inhibitor, with any other carbonic
anhydrase inhibitor (log, zonisamide, acetazolamide, or dichlorophenamide), may increase
the severity of metabolic acidosis and may also increase the risk of kidney stone formation.
Therefore, if Triokend XPT is given consonnialisty with anabice carbonic antipolic animalisty policy and carbonic applications and the policy of the appearance or worsening of metabolic acidosis (see Disgolfmanchos).

12.6 Relative Bioavailability of Trokendi XR™ Compared to Imm

Study in Healthy Normal Volunteers
Trökend IXR* Taken once a day provides steady state plasma levels comparable to immediatereleases topiramate taken every 12 hours, when administered at the same total 200-mg daily dose,
in a crossover study, 33 healthy subjects were titrated to a 200-mg dose of either Trokend IXR* or
immediate-release topiramate and were eminitatined at 200 mg per day for 10 days.

The 0.95 C I for the ratios of AUC₁₀, C₁₀ and C₂, as well as santial AUC (the area under two concentration-time curve from time of the many food store) for enturible time points were within the 80 to 1.25% bioquivalence limits, indicating no clinically significant difference between the few formulations. In addition, the 90% C for the ratios of torgramate pleasars concentration at each of multiple time points over 24 hours for the two formulations were within the 80 to 125% bioquivalence limits, except for the initial time points before 1.5 hour post-does

In rat studies (oral doses of 20 mg/kg, 100 mg/kg, and 500 mg/kg or 0.2 mg/kg, 2.5 mg/kg, 30 mg/kg, and 400 mg/kg), the frequency of limb mathematics (extroactly), micromella, and amelially was increased among the ethicyring of dame breated with 400 mg/kg) (10 mes the HMD on the mathematics) of the mathematics was observed at doses as low as 20 mg/kg (35 ms the RHP) on a mg/m² basis). Clinical sings of mathematics only were sent at 400 mg/kg and above, and mathemal body weight gain was reduced during treatment with 100 mg/kg or greatery.

In rabbit studies (20 mg/kg, 60 mg/kg, and 180 mg/kg or 10 mg/kg, 35 mg/kg, and 120 m kg orally during organigenesis, embryoffetal mortality was increased at 35 mg/kg, and mainformations, were observed at 120 mg/kg (6 times the 1916) or a mg/m² basis. Evidence mainformations, were observed at 120 mg/kg (6 times the 1916) or a mg/m² basis. Evidence mainformations were observed at 120 mg/kg (6 times the 1916) or a mg/m² basis. Evidence mainformations were observed at 120 mg/kg (6 times the 1916) or a mg/m² basis. Evidence mainformations were observed at 100 mg/kg (6 times the 1916) or a mg/m² basis. Evidence mainformations were observed at 100 mg/kg (6 times the 1916) or a mg/m² basis.

When frends rith write treated during the latter part of pestation and throughout betalon (CD ample, 4 mg/g, 00 mg/g, and 10 mg/g or 2.0 at acc 000 mg/g, or mg/g, or mg/g, or mg/g, or mg/g, and the decreased vability and delayed physical development at 200 mg/kg, of times the RRIO on a mg/m basis) and reductions in pra-addro-poteneoing body weight gain at 2 mg/g, 100 5 times the RRIO on a mg/m² basis) and above. Maternal toxicity (decreased body weight gain, clinical signs) was evident at 100 mg/g or greater.

in a rat embryo/fetal development study with a postnatal component (0.2 mg/kg, 2.5 mg/kg, 30 mg/kg, or 400 mg/kg during organogenesis; noted above), pups exhibited delayed physical development at 400 mg/kg (10 times the RHD on a mg/m² basis) and persistent reductions in body weight gain at 30 mg/kg (1 times the RHD on a mg/m² basis) and higher.

8.2 Labor and Delivery
Although the effect of topiramate on labor and delivery in humans has not been established, the development of topiramate-induced metabolic acidosis in the mother and/or in the fetus might affect the fetus' ability to tolerate labor [see Use in Specific Populations (8.1)]. 8.3 Nursing Mothers
Limited data on 5 breastfeeding infants exposed to topiramate showed infant plasma topiramate levels equal to 10-20% of the maternal plasma level. The effects of this exposure on infants are unknown. Caution should be exercised when Trokendi XR™ is administered to a nursing woman.

R 4 Pediatric Use Seizures in Pediatric Patients 6 Years of Age and Older

Because the capsule must be swallowed whole, and may not be sprinkled on food, crushed or chewed, Trokendi XR™ is recommended only for children age 6 or older.

The safety and effectiveness of Trokendi XR[™] in pediatric patients is based on controlled tr with immediate-release topiramate [see Clinical Studies (14)].

The adverse reactions (both common and serious) in pediatric patients are similar to those seen in adults [see Warnings and Precautions (5) and Adverse Reactions (6)].

These include, but are not limited to: • oligohytrosis and hyperthermial [see Warnings and Precautions (5.2)], • dose-related increased incidence of metabolic acidosis [see Warnings and Precautions (5.3)], • dose-related increased incidence of hyperammonemial [see Warnings and Precautions (5.9)].

Study in Patients with pileosy with immediate-release bolizantals alone or in combination in state of the pileosy plants pl

13 NON-CLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility

Carcinogenesis
An increase in urinary bladder tumors was observed in mice given topiramate (20 mg/kg, 75 mg/kg, and 300 mg/kg) in the diet for 21 months. The elevated bladder tumor incidence, which was statistically significant in makes and females receiving 300 mg/kg, was primarily due to the increased occurrence of a smooth muscle tumor considered hostmoproblegically impact to mice. Plasma exposures in mice receiving 300 mg/kg were approximately 400 to 11 times statisfy-state objectives of the properties of t

No evidence of carcinogenicity was seen in rats following oral administration of topiramate for 2 years at doses up to 120 mg/kg (approximately 3 times the RHD on a mg/m² basis).

Mutagenesis
Topiramise did not demonstrate genotoxic potential when tested in a battery of in vitro and in vivo
Topiramise did not demonstrate genotoxic potential when tested in a battery of in vitro and in vivo
tallo demonstrate sizes own mutagenic in the Ames best or the in vitro mouse lymphorem assign
to did not increase answerdedued DNA symbolisms in rat hepations in vitro and of did not increase
chromosomal aberrations in human lymphocytes in vitro or in rat bone macrow in vivo.

impairment of Fertility No adverse effects on male or female fertility were observed in rats at doses up to 100~mg/kg(2.5~times the RHD on a mg/m^3 basis).

14 CLINICAL STUDIES

14.1 Bridging Study to Demonstrate Pharmacokinetic Equivalence between Exter Release and Immediate-Release Topiramate Formulations

The basis for approval of the extended-release formulation (Trokend XR*) included the studies described below using an immediate-release formulation and the demonstration of the pharmacokinetic equivalence of Trokendi XR* to immediate-release topiramate through the analysis of concentrations and cumulative AUCs at multiple time points [see *Clinical Pharmacology (12.6)*]. The clinical studies described in the following sections were conducted using in topiramate.

14.2 Monotherapy Treatment in Patients with Partial Doset or Primary Generalized Tonic

Adults and Pedatric Patients 10 Years of Age and Older
The effectiveness of topiramate as initial monotherapy in adults and children 10 years of age
and older with partial onset or primary generalized fonic-clonic seizures was established in a
multicenter, randomized, double-blind, dose-controlled, parallel-group trial (Study 1).

Study 1 was conducted in 487 patients diagnosed with epilepsy (6 to 83 years of age) who had 1 or 2 well-documented seizures during the 3-month retrospective baseline phase who then entered the study and ecoleve topismate 25 mg per dig for 1 days in an open-table stahlon. For other than 10 mg and 10 mg an

The primary efficacy assessment was a between-group comparison of time to first seizure during the double-blind phase. Comparison of the Roplat-Meter survival curves of time to first seizure during the comparison of the Roplat-Meter survival curves of time to first seizure were compared to the comparison of the Roplat-Meter survival curves of the consistent across various patient subgroups defined by age, sex, peographic region, baseline douby veight, tassifies seizure byte, time since diagnosists, and baseline AED use.

Topiramate 50 mg/day (N=234)
Topiramate 400 mg/day (N=236) to First 0.40 Time 0.30 Rates 0.10 p = 0.0002 0.00 100 150 200 250 200 Time (Days)

Figure 1: Kaplan-Meier Estimates of Cumu ative Rates for Time to First Seizure in Study 1 The following pediatric use information is based on studies conducted with immediate-release

Safety and effectiveness in patients below the age of 2 years have not been established for the adjunctive theory; treatment of partial onset setzums; primary generalized bone-circle, setzures, primary generalized bone-circle, and primary setzums of the primary setzums of the primary setzums of the primary setzums or placebo-controlled wirestigations trait, we efficacy, setsly, not otherability of mendiate-release topirams or oral liquid and sprinkle formulations as an adjunct to concurrent antiepleptic drait, primary setzums or setzums or setzums or setzums or setzums or primary setzums or setzums or setzums or setzums or kg, 1.5 mg/kg, and 25 mg/kg per day) did not demonstrate efficacy compared with placebo in controlling setzums.

In general, the adverse reaction profile in this population was almilar to that of older pediatric patients, although resists from the above crinorised study, and an open-label, long-term extension study in these infants/bodders (1 to 24 months old) suggested some adverse reactions of serviciacy) observed in older pediatric patients and adults, is, growth-really infants-ation, for serviciacy observed in older pediatric patients and solds, is, growth-really infants-ation, for serviciacy observed in older pediatric patients or distall for advantage and the profile of the

These very young potatic satisfies apparent to experience on increased risk for intestional care from the satisfies and of respiratory disported in the satisfies and of respiratory disported in all test 5% potations from the satisfies were observed in all test 5% of patients on immediate-release topicamate and were 3% to 7% more frequent than in patients on pisacebor satisfies of the satisfies

immediate-release topiramate resulted in an increased incidence of patients with increased creatinine (any topiramate does 5%, placebo 0%). BUM (any topiramate does 3%, placebo 0%) and protein (any topiramate does 3%, placebo 0%), and increased incidence of decreased postassion in large topiramate does 3%, placebo 0%). This increased frequency of abnormal values postassion in large topiramate does 3%, placebo 0%). This increased frequency of abnormal increased postassion (and the province of the second of the province of the second of the place of the second of the place of the second of the s

immediate-release topicaments treatment also produced a oper-related processe in the gener of sateline when had a shift from formal at baseline to high processed (above as in unpair set range) in total ecsinophil count at the end of treatment. The incidence of these may also set to the count of the set of the sate of

Treatment with immediate-release topiramate for up to 1 year was associated with red Z SCORES for length, weight, and head circumference [see Warnings and Precautions Adverse Reactions (6)].

In open-label, uncontrolled experience, increasing impairment of adaptive behavior was documented in behavioral testing over time in this population. There was a suggestion that this on known! This document in function was treatment related or reflects the parties underlying of known! This document in function was treatment related or reflects the patients underlying disease (e.g. patients who received higher doses may have more severe underlying disease) [see Warnings and Precutions (f. 50].

In this open-label, uncontrolled study, the mortality was 37 deaths/1000 patient years. It is not possible to know whether this mortality rate is related to immediate-release topiramate treatment, because the background mortality rate for a similar, significantly refractory, young pediatric population (i month to 24 months) with partial epilepsy is not known.

Other Pediatric Studies
Topiramate treatment produced a dose-related increased shift in serum creatinine from normal
at baseline to an increased value at the end of 4 months treatment in adolescent patients (ages
12 years to 16 years) in a double-blind, placebo-controlled study (see Adverse Reactions (6. f)].

Aurealie Animal Studies
Aurealie Animal Aurealie
Aurealie

8.5 Geriatric Use 8.5 Gerantic Use Clinical studies of Immediate-release topiramate did not include sufficient numbers of subjects agad 53 and over to determine whether they respond differently than younger subjects. Dosage adjustment is necessary for elederly with creatinine clearance less than 70 mL/min/17.a Till Estimate GPH should be measured prior to dosing Isee Dosage and Administration (2) and Clinical Pharmanology (12 mL).

8.6 Race and Gender Effects
Evaluation of effectiveness and safety of topiramate in clinical trials has shown no race-orgender-related effects.

8.7 Renal Impairment
The clearance of topirimate was reduced by 42% in moderately renally impaired creatinine
clearance os topirimate was reduced by 42% in severely renally impaired subjects (creatinine
clearance less than 30 mL/min1.73m²) compared to normal renal function subjects (creatinine
clearance less than 30 mL/min1.73m²) compared to normal renal function subjects (creatinine
obesies recommended in patients with moderate or severe renal impairment (see Dosage and
Administration (2.4) and Clinical Pharmacology (12.3).

8.8 Patients Undergoing Hemodialysis I a rate that is 4 to 6 times greater than a normal Topiramate is cleared by hemodialysis at a rate that is 4 to 6 times greater than a normal individual. Accordingly, a protringed period of dialysis may cause topiramate concentration to plasma concentration during hemodialysis, a supplemental close of topiramate may be required. The actual adjustment should lake into account the duration of dialysis period, the decarance rate of the dialysis system belong used, and the effective renal clearance of the plant being dialysis close Couse and Administration C.23 and Chimical Pharmacology (100 America).

14.3 Adjunctive Therapy in Patients with Partial Onset Seizures

Adult Pallents with Patrial Onset Solutes
The effectiveness of topramate as an adjunctive treatment for adults with partial onset seizures
was established in a multicenter, restorbinzed, double-blind, placebo-controlled trials (Studies 2, 2)
as stable of the size multicenter, restorbinzed, double-blind, placebo-controlled frails (Studies 2, 2)
a single dosage with placebo, an patients with a history of parallal placebo and four consorting operating adjunct.

The property of the parallal placebox of the parallal plac

Patients in these studies were permitted a maximum of two atteignance drugs. (AED) in addition to logicimate tablets of rotaceb, in each study, retients were stabilized on optimum dosages of their concomitant AEDs during baseline phase lasting between 4 and 12 weeks. Patients who experienced a prespecified infimium number of partial outset 12 and 12 weeks. Patients who experienced a prespecified infimium number of partial outset 12 weeks baseline, or 4 for 4 week baseline, were randomly assigned to plotector or a specified dose of topicamet tables in addition to their other AEDs.

Following randomization, patients began the double-blind phase of treatment. In five of the six studies, satients received active drug beginning at 100 mg per day; the dose was then increased studies, satients received active flower black properties of the studies of the satient double was reached, unless inflorer and remove the settle of the studies of the satient double of the studies of the satient double of the satient satients and of the satient double of the satient satients randomized to each dose, and the actual mean and medical orders in the satisfaction period of the satients.

Table 9: Immediate Release Topiramate Dose Summary During the Stabilization Periods of Each of Six Double-Blind, Placebo-Controlled, Adjunctive Trials in Adults with Partial Onset Seizures

Target Topiramate Dosage (mg per day)							
Study	Stabilization Dose	Placebo®	200	400	600	800	1,000
2	N Mean Dose Median Dose	42 5.9 6.0	42 200 200	40 390 400	41 556 600	=	=
3	N Mean Dose Median Dose	44 9.7 10.0	=	=	40 544 600	45 739 800	40 796 1,000
4	N Mean Dose Median Dose	23 3.8 4.0	=	19 395 400	=	-	=
5	N Mean Dose Median Dose	30 5.7 6.0	:	=	28 522 600		=
6	N Mean Dose Median Dose	28 8.0 8.0	=	-	=	25 568 600	=
_	N .	90	157				

8.9 Women of Childbearing Polential
Data from pregnancy registries indicate that infants exposed to topiramate in viero have an
increased risk for citil pandor cert positic (oral cists) (see Warnings and Precautions (5.7) and
Use in Specific Populations (6.1). Consider the benefits and risks of topiramits when prescribing
Use in Specific Populations (6.1). Consider the benefits and risks of topiramits when prescribing
Condition not usually associated with permanent injury or destine. Because of the risk of oral cists
to the felax, which occur in the first timester of pregnancy before many women know they are
regnant, all women of childbearing potential should be apprised of the potential brazer to the
felax from exposure to topiramate. If the decision is made to use topiramate, women who are
rightness of the contraction of the contraction of the profit of the contraction of the profit of the profit

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance Trokendi XR^∞ (topiramate) extended-release capsule is not a controlled substance.

9.2 Abuse The abuse and dependence potential of Trokendi XR^{**} has not been evaluated in human studies.

 $\textbf{9.3 Dependence} \\ \textbf{Trokendi XR}^{m} \text{ has not been systematically studied in animals or humans for its potential for tolerance or physical dependence.}$

10 OVERDOSAGE
Overdoses of hipiramate resulted in signs and symptoms which included convuisions, diversities and symptoms which included convuisions, diversities, special citizens, burned vision, diplopa, mantaltin impated, ethategy, ahonomal citizens of the conversion of the conve

Topiramate overdose has resulted in severe metabolic acidosis [see Warnings and Precautions (5.3)].

A patient who ingested a dose between 96 g and 110 g of topiramate was admitted to hospital with coma lasting 20 to 24 hours followed by full recovery after 3 to 4 days.

Similar signs, symptoms, and clinical consequences are expected to occur with overdosage of Trokeroll AR*. Therefore, in acute Trokeroll XR** overdose, if the ingestion is recent, the stomach should be emptide immediately by stage or by induction of emess. Activated charcol has been shown to adsorb topiramate in virio. Treatment should be appropriately supportive. Hemodalysis is an effective means of removing biginants from the body.

11 DESCRIPTION

Topiramate, USP, is a sulfamate-substituted monosaccharide. Trokendi XR^{1m} (topiramate) extended-release capsules are available as 25 mg, 50 mg, 100 mg and 200 mg capsules for oral administration.

Topiramate is a white to off-white powder. Topiramate is freely soluble in polar organic solvents such as acetonitrile and acetone; and very slightly soluble to practically insoluble in non-polar organic solvents such as hexanes. Topiramate has the molecular bromus C.H.,ANDS, and a molecular weight of 339.4. Topiramate is designated chemically as 2,34,5-01-O-sepropylione—7-0-fructopyrances estilamate and has the following surcular formular.

Trokendi XR¹⁶ (topiramate) is an extended-release capsule. Trokendi XR¹⁶ capsules contain the following inactive ingredients:

Sugar Spheres, NF Hypromeilose (Type 2910), USP Mannitol, USP Docusate Sodium, USP Sodium Benzoate, NF Ethylcellulose, NF Oleic Acid, NT Triglycerides, NF Medium Chain Triglycerides, NF Polvethylane (Sycol NF Oleic Acid, NF Medium Chain Triglycerides, NF Polyvethylene Glycol, NF Polyvinyl Alcohol, USP Titanium Dioxide, USP Talc, USP Lecithin, NF Xanthan Gum, NF

The capsule shells contain gelatin, USP; Titanium Dioxide, USP; and Colorants. The colorants are: Thota Glova right capsules) Fellow line of light Strength capsules) Fellow into Dxide, USP; 2S mg and 50 mg capsules) Fellow kind Dxide, USP; 2S mg and 50 mg capsules) Feb.CR exist 50 kmg, 100 mg and 200 mg capsules) Feb.CR exist 50 kmg, 100 mg and 200 mg capsules) Recolorant, USP; 60 mg capsules) Recolorant, USP; 60 mg capsules) Recolorant, USP; 60 mg capsules)

All capsule shells are imprinted with black print that contains shellac, NF, and black iron oxide, NF

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
The precise mechanisms by which topiramate exerts its anticonvalsant effects are unknown,
however, predictal studies have revealed four properties that may contribute to topiramate's
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14.5 Adjunctive Therapy in Patients with Lennox-Gastaut Syndrome

The effectiveness of topiramate as an adjunctive treatment for seizures associated with Len Gastaut syndrome was established in a multicenter, randomized, double-blind, placebo-control trial comparing a single dosage of topiramate with placebo in patients 2 years of age and or (Study 10)

Patients in Study 10 were permitted a maximum of two antiepileptic drugs (AEDs) in addition to topisramate or placebo. Patients who were experiencing at least 60 securios per month between the patients of t

In all adjunctive topiramate trials, the reduction in seizure rate from baseline during the entire double-blind phase was measured. The median percent reductions in seizure rates and the responder rates fraction of patients with at least 30% reduction by treatment group for each study are shown below in Table 10.As described above, a global improvement in seizure severity was also assessed in the Lennor-Sastaut trial.

Table 10: Efficacy Results in Double-Blind, Placebo-Controlled, Adjunctive Epilepsy Trials Target Topiramate Dosage (mg per day)

Study#		Placebo	200	400	600	800	1,000	-6mg/ kg/day*
Partial O	nset Seizures Studies in .	Adults						
2	N Median % Reduction % Responders	45 11.6 18	45 27.2° 24	45 47.5° 44°	46 44.7° 46°			=
3	N Median % Reduction % Responders	47 1.7 9	=		48 40.8° 40°	48 41.0° 41°	47 36.0° 36°	
4	N Median % Reduction % Responders	24 1.1 8		23 40.7° 35°		=		=
5	N Median % Reduction % Responders	30 -12.2 10			30 46.4' 47°			
6	N Median % Reduction % Responders	28 -20.6 0	=	=	=	28 24.3° 43°		
7	N Median % Reduction % Responders	91 20.0 24	168 44.2° 45°	=	=	=	=	=
Studies i	n Pediatric Patients							
8	N Median % Reduction % Responders	45 10.5 20		=	=			41 33.1 ^d 39

iline priospriatase. The significance of these findings is uncertain

Treatment with immediate-release topiramate for up to 1 year was associated with reductions in 2 SCORES for length, weight, and head circumference [see Warnings and Precautions (5.3) and Adverse Reactions (6)].

In open-label, uncontrolled practices, increasing impairment of adoptive behavior various documented in behavioral stelling over time in the population. There was a supposition that this effect was dose-related, the worker, because of the absence of an appropriate control group, it is not known if this decrement in function was treatment related or reflects the patients underlying disease (e.g. patients who received higher doses may have more severe underlying disease) (see Warmings and Presentions 6.6.0).

In this open-label, uncontrolled study, the mortality was 37 deaths/1000 patient years. It is not possible to know whether this mortality rate is related to immediate-release topiramate treatment, because the background mortality rate for a similar, significantly refractory, young pediatric population (1 month to 24 months) with partial epilepsy is not known.

Other Pediatric Studies
Topiramate treatment produced a dose-related increased shift in serum creatinine from normate baseline to an increased value at the end of 4 months treatment in adolescent patients (age 12 years to 15 years) in a double-blind, placebo-controlled study (see Adverse Reactions (6.1)).

Juvenile Animal Studies
When topiramate (30 mg/kg/day, 90 mg/kg/day) or 300 mg/kg/day) was administered orally
rats during the juvenile period of development (postnatal days 12 to 50), bone growth p
thickness was reduced in males at the highest dose, which is approximately 5 to 8 times
maximum recommended pediatric dose (§ mg/kg/day) on a body surface area (mg/m²) bas

8.5 Gertatric Use

Clinical studies of Immediate-release lopiramete did not include sufficient numbers of subjects

Clinical studies of Immediate-release lopiramete did not include sufficient numbers of subjects

Clinical studies of Immediate whether they respond differently than younger subjects. Occapied adjustment is necessary for elidently with creatifient destance lies than 17 on Immediate Teachers

Estimate OFF should be measured prior to dosing [see Dosage and Administration (2) and Clinical Pharmacology (1.2) and Clinical Pharma

8.6 Race and Gender Effects Evaluation of effectiveness and safety of topiramate in clinical trials has shown no race- or gender-related effects.

8.7 Renal Impairment
The clearance of topic matte was reduced by 42% in moderately renally impaired circulations
clearance 30 to 50 m. Unimin 1.2mm and by 54% in severely renally impaired subjects (creations
considerance) and 50 m. Unimin 1.2mm and 50 m. Considerance
clearance greater than 70 m./min/1.2mm, One-half the usual starting and maintenance
does its recommended in patients with moderate or sever renal impairment (see Dosage and
Administration (2.4) and Clinical Pharmacology (12.3).

8.8 Patients Undergoing Hemodishysis
Topinamia is cleared by memodishysis at a rate that is 4 to 6 times greater than a normal
individual. Accordingly, a prolonged period of dishysis may cause topinamia concentration to
individual Accordingly, a prolonged period of dishysis may cause topinamia concentration to
plasma concentration during hemodishysis, a supplemental dose of inpoirmate may be required,
he actual adjustment should take into account the duration of dishysis period the clearance rate
of the dishysis system being used, and the effective renal clearance of the potential of the dishysis period the Consequence of the dishysis period the Consequence of the dishysis system being used, and the effective renal clearance of the potential of the consequence of the consequence of the dishysis period to the consequence of the consequenc

14.3 Adjunctive Therapy in Patients with Partial Onset Seizures

Adult Patients with Partial Orset Sciences
The effectiveness of topramete as an adjusctive freatment for solute with partial orsest sciences. The effectiveness of topramete as an adjusctive freatment for solute with partial orsest sciences. As a size of the partial orsest science and partial orsest sciences of the partial orsest sciences of the partial orsest sciences and partial order for comparing several designs of thorough and partial ordest sciences, with or without secondarily generated sciences.

Patients in these studies were permitted a maximum of two entepileptic drugs (AEO) in addition to logistariate batiels or pleade, in each study, patients were statistized on optimum disaspes of their concomitant AEDs during baseline phase lasting between 4 and 12 weeks. Patients who optimized as prespectful minimum number of partial oriest 12-week baseline, between 12-week baseline, between 12-week baseline, or 3 for 4-week baseline) were randomly assigned to placedor or a specified does of optimizate tablets in addition to their other AEOs.

Following randomization, patients began the double-blind phase of treatment. In five of the six studies, patients received active drug beginning at 100 mg per day, the does was then increased was reacted, unlies infollowed per compared to the control of the con

Table 9: Immediate Release Topiramate Dose Summary During the Stabilization Period of Each of Six Double-Blind, Placebo-Controlled, Adjunctive Trials in Adults with Partia

Target Topiramate Dosage (mg per day)							
Study	Stabilization Dose	Placebo ^b	200	400	600	800	1,000
2	N Mean Dose Median Oose	42 5.9 6.0	42 200 200	40 390 400	41 556 600		=
3	N Mean Dose Median Dose	9.7 10.0	=	=	40 544 600	45 739 800	40 796 1,000
4	N Mean Oose Median Oose	23 3.8 4.0	=	19 395 400	-	Ξ	=
5	N Mean Oose Median Dose	30 5.7 6.0	=	=	28 522 600		Ξ
6	N Mean Dose Median Dose	28 8.0 8.0	=	=		25 568 600	=
7	N Mean Dose Median Dose	90 8 8	157 200 200	=	=	=	=

*Dose-response studies were not conducted for other indications or pediatric partial-onset seizures
*Placebo dosages are given as the number of tablets. Placebo target dosages were as follows:
Study 4 (4 tablets/day); Studies 2 and 5 (6 tablets/day); Studies 6 and 7 (8 tablets/day); Study 3 (10 tablets/day); Studies 7 and 7 (8 tablets/day); Studies 7 and 7 (8 tablets/day); Studies 8 and 8 an

<u>Pediatric Patients Ages 2 to 16 livars with Purtial Orset Sezures</u>
The effectiveness of topiramate as an adjunctive treatment for pediatric patients ages 2 to 16 years with partial orset setzines was established in a multicenter, randomized, double-blind, placebo-controlled trial (Study 6), comparing topiramate and placebo in patients with a history of partial orset setzines, with or without escondarily generated softzures.

Patients in Study 8 were permitted a maximum of two antieplieptic drugs (AEDs) in addition to topiramate tablets or placebo. In Study 6, patients were stabilized on optimum dosages of their concomitant AEDs during an 8-week baseline phase. Placetis who experienced at least six parties onset setzures, with or without secondarily generatized setzures, during the baseline phase were randomly assigned to placebo or topiramate in addition to their other AEDs.

Following randomization, patients began the double-blind phase of treatment. Patients receive active drug beginning at 25 or 50 mg per day; the dose was then increased by 25 mg per day; the dose was then increased by 25 mg per day based on patients' weight in approximate a dosage of 8 mg/kg/day per day was reached, unless inblerance prevented increases. After titration, patients entered an 8-weight statilization peroit.

14.4 Adjunctive Therapy in Patients with Primary Generalized Tonic-Clonic Seizures

The effectiveness of topiramate as an adjunctive treatment for primary generalized tonic-d seizures in patients 2 years old and older was established in a multicenter, randomized, dou billind, placebo-controlled trial (Study 9), comparing a single dosage of topiramate and placebo.

Patients in Study 9 were permitted a maximum of two antiepileptic drugs (AEDs) in addition to topiramate or placebo. Patients were stabilized on optimum dosages of their concomitant AED drugg an 8-week baseline phase. Patients who experienced at least three primary generated tonic-donic saizures during the baseline phase were randomly assigned to placebo or topiramate in addition to their other AEDs.

Following randomization, patients began the double-blind phase of treatment. Patients received active drug beginning at 50 mg per day for four weeks; the does was then increased by 50 mg to 150 mg per day increments every other week until the assigned dose of 175, 250 m 400 mg per day based on patients body weight to approximate a dosage of 5 mg/kyday was reached, unless influence prevended norceases. After that on, patients entered a 12-week stabilization period.

Topiramate, USP, is a sulfamate-substituted monosaccharide. Trokendi XR''' (topiramate) extended-release capsules are available as 25 mg, 50 mg, 100 mg and 200 mg capsules for oral administration Topiramate is a white to off-white powder. Topiramate is freely soluble in poler organic solvents such as acetonifritie and acetone; and very slightly soluble to practically insoluble in non-polar organic solvents such as haxmas. Topiramate has he molecular formula: C.H.,MDS, and a molecular weight of 3394. Topiramate is designated chemically as 2,34,5-b1-oi-soprophiliden—5-D'-furctopyranoes sublimate and has the following structural formula:

Sugar Spheres, NF Hypromellose (Type 2910), USP Mannitol, USP Oocusate Sodium, USP Sodium Benzoate, NF Ethylcellulose, NF Oleic Acid, Ni Triglycerides, NF Medium Chain Triglycerides, NF Polvethylene Glycol, NF Oleic Acid, NF Medium Chain Triglycerides, NF Polyethylene Glycol, NF Polyvinyl Alcohol, USP Titanlum Oloxide, USP Talc, USP Lecithin, NF Xahana Gum, NF

The capsule shells contain gelatin, USP; Titanium Oioxide, USP; and Colorants.

The capsule shells contain yearin, vo. .
The colorants all strength capsules)
**FD&C Blue #1 (all strength capsules)
**FO&C Red #3 (50 mg, 100 mg and 200 mg capsules)
**FO&C Red #3 (50 mg, 100 mg and 200 mg capsules)
**FO&C Fellow #6 (50 mg, 100 mg and 200 mg capsule)
**Riboflavin, USP (25 mg capsules)

All capsule shells are imprinted with black print that contains shellac, NF, and black iron oxide, NF.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
The precise mechanisms by which beginness earth: its anticonvolutent affects are unknown.
The precise mechanisms by which beginness earth: its anticonvolutent affects are unknown.
The precise mechanisms by which we require the properties that may contribute to pregnance efficacy for epileps. Electrophysiological and blochemical evidence suggests that polymate, at pharmacologically relevant concentrations, blocks voltage-dependent sodium channels, adaptions that activity of the neurobranemitier gamma-aminoutryst at some subtypes of the GAB-A respite, arrangements the Address described the publication of the properties of the pro

14.5 Adjunctive Therapy in Patients with Lennox-Gastaut Syndrome

The effectiveness of topiramate as an adjunctive treatment for seizures associated with Lennox Gastaut syndrome was established in a multicenter, randomized, double-blind, placebe-controlled trial comparing a single dosage of topiramate with placebo in patients 2 years of age and older (Study 10).

Patients in Study 10 were permitted a maximum of two antiepileptic drugs (AEDs) in addition to topiaration or placebo. Patients who were experiencing at least 60 setures per month before between the patient of the patient permitted and the patient permitted permitted permitted and the patient permitted and the patient permitted perm

in all adjunctive topiramate trials, the reduction in seizure rate from baseline during the entire double-blind phase was nessured. The median percent reductions in seizure rates and the responder rates (fraction of patients with at lases 150% reduction) by treatment group for each study are shown below in Table 10. As described above, a global improvement in seizure severity was also assessed in the Lentino-Cabatut trial.

Target Topiramate Dosage (mg per day)								
Study#	*	Placebo	200	400	600	800	1,000	~6mg/ kg/day*
Partial Or	set Seizures Studies in	Adults						
2	N Median % Reduction % Responders	45 11.6 18	45 27.2° 24	45 47.5 ^b 44 ^d	46 44.7° 46 ³			-
3	N Median % Reduction % Responders	47 1.7 9	-	=	48 40.8° 40°	48 41.0° 41°	47 36.0° 36¹	
4	N Median % Reduction % Responders	24 1.1 8		23 40.7° 35°		=	-	=
5	N Median % Reduction % Responders	30 -12.2 10			30 46.4' 47'	=	-	=
6	N Median % Reduction % Responders	28 -20.6 0	-	-		28 24.3° 43°		=
7	N Median % Reduction % Responders	91 20.0 24	168 44.2° 45°	=	=	=		=
Studies in	Pediatric Patients							
8	N Median % Reduction % Responders	45 10.5 20		=		=		41 33.1 ^d 39
Primary (Generalized Tonic-Clonic	h						
9	N Median % Reduction % Responders	40 9.0 20	=	=			-	39 56.7 ^d 56 ^c
Lennox-G	astaut Syndrome							
10	N Median % Reduction % Responders Improvement in	49 -5.1 14	=	-	-	=		46 14.8 ^s 28 ^s
	Seizure Severity	28						52d

ns with placebo: "p=0.080; "p < 0.010; "p < 0.001; "p < 0.050; "p=0.065; "p < 0.005; Comparisons with pieuceup. Pendon, pendon de production de production de production and % responders are reported for PGTC seizures; "Median % reduction and % responders for drop attacks, le, tonic or atomic seizures Median % reduction and % responders for drop attacks, le, tonic or atomic seizures. Percentage of subjects who were minimally, much, or very much improved from baseline.

Federalized of Subjects Wine were minimized, in out, or very minor inspired near assigned based for Studies 8 and 9, specified target dosages (less than 9.3 mg/kg/day) were assigned based on subject's weight to approximate a dosage of 6 fing/kg per day; hese dosages corresponded to mg per day dosages of 125 mg per day, 175 mg per day, 225 mg per day, and 400 mg per day

In clinical trials for epilepsy, daily dosages were decreased in weekly intervals by 50 mg per day to 100 mg per day in adults and over a 2- to 8-week period in children; transition was permitted to a new antieplieptic regimen when clinically indicated.

16 HOW SUPPLIED/STORAGE AND HANDLING

Trokendi XR''' (topiramate) extended-release capsules are available as extended-release capsules in the following strengths and colors:

Bottles
25 mg (light green opaque body/yellow opaque cap) topiramate exprint "SPN" and "25") - bottles of 100 count (NDC-17772-101-01)

50 mg (light green opaque body/orange opaque cap) topiramate extended-release capsules (black print "SPN" and "50") - bottles of 100 count (NDC-17772-102-01)

12.2 Pharmocolynamics
Topinman bas antiboroussant activity in rat and mouse maximal electroshock seiture (MES)
tests. Topinman bas entroper seiture (MES)
tests. Topinman bei sonly weakly effective in blocking clonic saktures induced by the GABA
venopler antasports, perkylenderfazion. So pinarnate is also effective in rodert modes of epilepse,
which include thrict and absorber-like sectures in the aportianeous epilepic rat (SER) and braic
and order sectures indiced or has by secting of the arrivgation or by global becomes
and order sectures or relief or the sub-ylender or by global becomes

12.3 Pharmacokinetics
Absorption and Distribution
Linear pharmacokinetics of topiramate from Trokendi XR" were observed following a single oral
Lonear pharmacokinetics of topiramate from Trokendi XR" were observed following a single oral
Lonear possibility of the binding of the Spiramate for carbonic anhydrates river blood delis.

Onlinear possibility due to the binding of the Spiramate for carbonic anhydrates river blood delis.

The peak plasma concentrations ($\Gamma_{\rm sol}$) of topiramete occurred at approximately 24 hours following a single 200 mg ord lose or florwised 1% 4 steady-state, the CM2-y₂, $\Gamma_{\rm sol}$, and ($\Gamma_{\rm sol}$) of topiramete from Toburah XF: administered once-deily and the Immediate-release tablet administered and the CM2-y₂ release tablet administered attacks of the CM2-y₂ release tablet administered attacks-state for forward XF: administered once-deily was approximately 2.6 and 4.25° in healthy subjects and in epileptic patients, respectively, compared to approximately 4.0% and 51%, respectively, compared to approximately 4.0% and 51%, respectively.

Compared to the fasted state, high-fat meal increased the $C_{\rm res}$ of topiramate by 37% and shortened the $T_{\rm res}$ to approximately 8 hour following a single dose of frokendi XF", while having no effect on the XLIC. Modeling of the observed single dose of ted ata with simulation to steady state showed that the effect on $C_{\rm res}$ is significantly reduced following repeat administrations. Trokendi XF" can be taken without regard to meals.

Topiramate is 15% to 41% bound to human plasma proteins over the blood concentration range of 0.5 mcg/mL to 250 mcg/mL. The fraction bound decreased as blood concentration increased.

Carbamazepine and phenytoin do not after the binding of immediate-release topiramate. Sodit, valproate, at \$00 mcg/m (a concentration 5 to 10 times higher than considered therapeutic invalpoate) decreased the protein binding of immediate-release topiramate from 23% to 13 immediate-release topiramate does not influence the binding of sodium valproate.

Metabolism and Excretion

Topramate is not extensively metabolized and is primarily eliminated unchanged in the urine

Lopramate is not extensively metabolized and is primarily eliminated unchanged in the urine

Lopramated Top of an administered dose). Six metabolites have been identified in humans,

robe of which constitution note than 5% of an administered dose. The metabolites are formed

of topicamate, in rask, other problemotic to inhibit bublar reaboration, along with beginnants,

a significant increase in real clearance of topicamate was observed. This interaction has not

seen evaluated in humans. Overall, on plasma desarance (LPI) is approximately 20 m./min to

30 ml./min in adults following oral administration. The mean elimination half-life of topicamate

was approximately 3 hours following repeal administration of rickendi (XP -

Senal Impairment
The clearance of topismate was reduced by 42% in moderately renally Impaired (creations clearance 30 to 69 mL/min/ 1,73m²) and by 54% in swerely renally impaired subjects (creatinine clearance 30 to 69 mL/min/ 1,73m²) and by 54% in swerely renally impaired subjects (creatinine clearance present and sum of min/ 1,73m²). Since bepranate is presumed to underpo significant clearance greater than 70 mL/min/ 1,73m²). Since bepranate is presumed to underpo significant clearance, in the sum of min of man discussed could only an expensive sum of min of man discussed could only an expensive sum of min of man discussed could only an expensive sum of min of man discussed could only an expensive sum of min of man discussed could only an expensive sum of min of min

Hemodialysis
Topirameta is cleared by hemodialysis. Using a high-efficiency, counterflow, single pass-dialysate to
Hemodialysis procedure, topiramate dialysis clearance was 120 mL/min with blood flow through
the dialyzer at 400 mL/min. This high clearance (compared to 20 mL/min to 30 mL/min to bid call
the dialyzer at 400 mL/min. This high clearance (compared to 20 mL/min to 30 mL/min to bid call
particular and the compared to 30 mL/min to 30

Hepatic Impairment In hepatically impaired subjects, the clearance of topiramate may be decreased; the mechanism underlying the decrease is not well understood.

Age, Gender and Race
The pharmacolivation of topicamata in elderly subjects (55 to 85 years of age, Na-150 were
The pharmacolivation of topicamata in elderly subjects (55 to 85 years of age, Na-150 were
Creating cleanance (-20%) compared to young adults following a single oral 100 mg dose,
maximum plasma concentration for elderly and young adults was achieved at approximately
1 to 2 hours. Reflecting the primary renal elimination of fortprimate, topicamate plasma and
1 to 2 hours. Reflecting the primary renal elimination of beginning to the plasma and
young adults. Similarly, topicamate half-life was longer (13%) in the elderly, Reduced topicamate
cleanance resulted is slightly higher amamum plasma contention (23%) and AU (25%) in
elderly subjects than observed in young adults. Topicamate clearance is decreased in the elderly
only the extent this renal furction is reduced.

In a study of 13 healthy elderly subjects and 18 healthy young adults who topied Trakend W.? 30% higher man C., and 45% higher MLC values were observed in elderly companied by soung subjects. Blerly subjects chibbled shorter median T., at 16 hours versen 24 hours in young subjects. The approard relimitation half-like was similar across age groups. As recommended for all patients, dosage adjustment is indicated in elderly patients with a creatinine clearance rate less than 10 mL individ 17.3 ml) (see Dosage and Administration (2.4)].

Clearance of topiramate in adults was not affected by gender or race

Pediatric Pharmacolinetics.

Pediatric Pharmacolinetics and the pediatric pharmacolinetics of the pediatric pharmacolinetics of the pediatric pharmacolinetic of the pediatric pharmacolinetic of the pediatric pharmacolinetic network elibert no or a combination of other antispileptic coups. A population pharmacolinetic model was developed on the basis of pharmacolinetic data from relevant lopiranate clinical studies. This dataset contained data from 1217 subjects including or age. The pediatric pharmacolinetic pharmacolinetic pharmacolinetic pharmacolinetic or age. Pediatric pleases on adjunctive treatment eshibited a higher and cleanance (LII) in topiarantate compared to patients on adjunctive treatment eshibited a higher and cleanance compared to patients on monotherapy presumably bacques of increased clearance or concomitant entryme-inducing antispleptic drugs. In companson, topiamate clearance

100 mg (green opaque body/blue opaque cap) topiramate extended-release capsules (black print "SPN" and "100") - bottles of 100 count (NDC-17772-103-01)

200 mg (pink opaque body/blue opaque cap) topiramate extended-release capsules (black print "SPN" and "200") - bottles of 100 count (NDC-17772-104-01)

Blister package 25 mg (light green opaque body/yellow opaque cap) topiramate extended-release capsules (black print "SPN" and "25") - blister packages of 30-count (NDC-17772-101-15)

50 mg (light green opaque body/orangé opaque cap) topiramate extended-release capsules (black print "SPN" and "50") – blister packages of 30-count (NDC-17772-102-15)

100 mg (green opaque body/blue opaque cap) topiramate extended-release capsules (black print "SPN" and "100") – blister packages of 30-count (NDC-17772-103-15)

200 mg (pink opaque body/blue opaque cap) topiramate extended-release capsules (black print "SPN" and "200") – blister packages of 30-count (NDC-17772-104-15)

16.2 Starage and Handling
Trokendi XR⁻ (upriramate) extended-release capsules should be stored in well closed containers
at controlled round intemperature [25°C (77°F); excursions 15°C-30°C (59°F-86°F)]. Protect from
moisture and light.

17 PATIENT COUNSELING INFORMATION See FDA-approved patient labeling (Medication Guide)

Administration Instructions
Counsel patients to swallow Trokendi XR** capsules whole and intact. Trokendi XR** should not be sprinkled on food, chewed or crushed [See Dosage and Administration (2.9)].

Consumption of Alcohol
Advise patients to completely avoid consumption of alcohol at least 6 hours prior to and 6 hours
after taking Trokendi XR" [see Warnings and Precautions (5.4)].

Acute Myopia and Secondary Angle Closure Glaucoma
Advise patients taking Trokendi XR² to seek immediate medical attention if they experience
blurred vision, visual disturbances or periorbital pain [see Warnings and Precautions (5.1)].

Oligohydrosis and Hyperthermia
Counsel patients that Trokendi XR**, especially pediatric patients, can cause decreased sweating
and increased body temperature, especially in hot weather, and they should seek medical
attention if this is noticed [see Warnings and Precautions (5.2)].

Matabolic Actions: inform patients about the potentially significant risk for metabolic acidosis that may be asymptomatic and may be associated with adverse effects on kidneys (ep, kidney stones, perphocalicinus), honce (ep, osteoporosis, osteomalicas, and/or incluse in orbitren), and growth (ep, utwish delayireta-dathor) in pediatric patients, and on the textus (see *Warnings and "patienthosis").

Sulcidal Behavior and Idealion
Counsel patients, their caregivers, and families that AEDs, including Trokendi XR*, may increase
the risk of suicidal thoughts and behavior and they should be advised of the need to be alert for
the emergence or worsening of the signs and symptoms of depression, any unusual changes in

per kg is greater in pediatric patients than in adults and in young pediatric patients (down to 2 years) than in older pediatric patients. Consequently, the plasma drug concentration for the same mip/Gaylo soce would be lower in pediatric patients compared to adults and also in younger pediatric patients compared to older pediatric patients. Clearance was independent of tosse.

As in adults, hepatic enzyme-inducing antiepileptic drugs decrease the steady state plasma concentrations of topiramate.

Drug-Drug Interaction Studies

Antiepileptic Drugs
Potential interactions between immediate-release topiramate and standard AEDs were assessed
in controlled clinical pharmacokinetic studies in patients with epilepsy. The effects of these
interactions on mean plasma AIDS are summarized in Table 8. Interaction of TrokendI XPT and
standard AEDs is not expected to differ from the experience with immediate-release betwarmed.

In Table 8, the second column (AED concentration) describes what happened to the concentration of the AED listed in the first column when topiramate was added. The third column (topiramate concentration) describes how the co-administration of a drug listed in the first column modified the concentration of topiramate in experimental settings when topiramate was given alone. Table 8: Summary of AED Interactions with toniramate

AED Coadministered	AED Concentration	Topiramate Concentration
Phenytoin Carbamazepine (CBZ) CBZ epoxide† Valproic acid Phenobarbital Primidone Lamotrigine	NC or 25% increase* NC NC NC 11% decrease NC NC NC NC NC OC TOMORE TOMORE TO THE TOMORE TOMOR	48% decrease 40% decrease NE 14% decrease NE NE 13% decrease
dosing regimen of pheny †=Is not administered but	ncreased 25% in some patient toin is an active metabolite of carb e in plasma concentration	s, generally those on a twice a day lamazepine

In addition to the pharmacokinetic interaction described in the above table, concomitant administration of valoroic acid and topiramate has been associated with hyperammonemia with and without enephalogethy and hypothermia [see Warnings and Precautions (5.9), (5.11) and Drug Interactions (7.5)].

CNS Depressants or Alcohol Concomitant administration of Trokendi XR" and other CNS depressant drugs or alcohol has not been evaluated in clinical studies (see Contraundications (4), Warnings and Precautions (5.4), (5.19), and Drug Interactions (7.1), (7.4).

(3.13), and Drug Inharactoris (7.1,07.4).

Drail Contraceptives:
In a pharmacokinetic Interaction study in healthy volunteers with a concomitantly administered combination and contraceptive product containing. I mig noverhindrone (NET) plus 35 mag ethinyl estratiol (EE), hopfrants, given in the absence of other medications at doses of 59 bit of the contraction of the cont

Digoxin in a single-dose study, serum digoxin AUC was decreased by 12% with concomitant topiramate administration. The clinical relevance of this observation has not been established.

Hydrochlorothiazide
A drug-drug interaction study conducted in healthy volunteers evaluated the steady-state
A drug-drug interaction of hydrochlorothiazide (HCT2) (25 mg every 24 hours) and topiramate (96 mg
hydrochlorothiazide (HCT2) (25 mg every 24 hours) and topiramate (96 mg
half brighteen of the control of the cont

Metformin Topiramate treatment can frequently cause metabolic acidosis, a condition for which the use of metformin is contraindicated. Trokendi XR* is expected to exhibit the same degree of metabolic acidosis as topiramate.

A drug-drug interaction study conducted in healthy volunteers evaluated the steady-studied in healthy volunteers evaluated the steady-studied in the property of the property

Kidney Stones
Instruct patients, particularly those with predisposing factors, to maintain an adequate fluid intake in order to minimize the risk of kidney stone formation [see Warnings and Precautions (5.10)].

<u>Hoodbranis</u>
Coursel patients that Tokendl XR* can cause a reduction in body temperature, which can lead to alterations in mental status. If they note such changes, they should call their bacter professional and measure their body temperature. Pletests taking concentiant valgooic care volusional and measure their body temperature. Pletests taking concentrating values are considered to the potential severes reaction (see *Warnings* and *Procautions* 6.7.1).

<u>Paresthesia</u>
Counsel patients that they may experience lingling in the arms and legs. If this symptom occurs, they should consult with their physician [see Warnings and Precautions (5.12)].

Manufactured by: Catalent Pharma Solutions, Winchester, Kentucky 40391

Manufactured for: Supernus Pharmaceuticals, Inc., Rockville, Maryland 20850

RA-TRO-V2 LANG-0016 Revised: August 2013

Specific Populations
Renal Impairment
Re

Hemodalvjals

Topramate is cared by hemodalvjals. Using a high-efficiency, counterflow, single pass-dialysate hemodalvjals procedure, topriamate dallysis clearance was 150 mL/min with blood flow through the dallyse and continuint. This high clearance (compared to 250 mL/min to 33 mL/min total craft and the dallyse and continuint to 30 mL/min total craft and the continuint total craft and the craft

In hepatically impaired subjects, the clearance of topiramate may be decreased; the mecha underlying the decrease is not well understood.

uncerying the decrease is not well understood.

Age, Gender and Age, Gender and Septimized the destry subjects (65 to 85 years of age, N=16) were exhalled in a continued princial sould, The delety subject population had reduced result function exhall the property of the destry and young adults was achieved at approximately 1 to 2 haurs. Reflecting the privary preal elimination of forpitmate, topiramate plasma and 1 to 2 haurs. Reflecting the privary privalents, compared to young adults. Similarly, topiramate half-life was longer (18), in interry subjects, compared to young adults. Similarly, topiramate half-life was longer (18), in the privalent of the subject of the privalent of the subject is the destry and privalent of the subject is the destry and privalent of the subject is the destry of the destry adults. Similarly the privalent in young adults. [Instrument for 25%] and AUC (25%) in 1 deep (18) and (18) and (18) and (18) and (18) and (18) and (18) are subject to the destry of the subject that observed in young adults. [Instrument for 25%] and AUC (25%) in 18) and (18) and (18) are subject that observed in young adults. [Instrument for 25%] and AUC (25%) in 18) and (18) are subject that observed in young adults. [Instrument for 25%] and AUC (25%) in 18) are subject that observed in young adults. [Instrument for 25%] and AUC (25%) in 18) are subject to the privalent for 18) and 18) are subject to the privalent for 18) and 18).

In a study of 13 healthy elderly subjects and 18 healthy young adults who received Trokendi XR⁻⁻, and the properties of the properties

Clearance of topiramate in adults was not affected by gender or race

Pediatric Pharmacokinetics of immediate-release topiramate were evaluated in patients ages 2 years to less than 16 years. Patients received either no or a combination of other antiepipelic diversion. In the patient of the patients of th

100 mg (green opaque body/blue opaque cap) topiramate extended-release capsules (black print "SPN" and "100") - bottles of 100 count (NDC-17772-103-01)

200 mg (pink opaque body/blue opaque cap) topiramate extended-release capsules (black print "SPN" and "200") - bottles of 100 count (NDC-17772-104-01)

ster_package mg_ilight_green opaque_body/yellow_opaque_cap) topiramate_extended-release_capsules ack_print "SPN" and "25") = blister_packages of 30-count (N0C-17772-101-15)

50 mg (light green opaque body/orange opaque cap) topiramate extended-release capsules (black print "SPN" and "50") - blister packages of 30-count (NDC-17772-102-15)

100 mg (green opaque body/blue opaque cap) topiramate extended-release capsules (black print "SPN" and "100") — blister packages of 30-count (N0C-17772-103-15)

200 mg (pink opaque body/blue opaque cap) topiramate extended-release capsules (black print "SPN" and "200") – blister packages of 30-count (NDC-17772-104-15)

16.2 Storage and Handling
Trokendl XH** (topiramate) extended-release capsules should be stored in well closed containers at controlled room temperature [25°C (77°F); excursions 15°C-30°C (59°F-86°F)]. Protect from it controlled room noisture and light

17 PATIENT COUNSELING INFORMATION See FOA-approved patient labeling (Medication Guide)

Administration Instructions
Counsel patients to swallow Trokendi XR** capsules whole and intact. Trokendi XR** should not be sprinkled on food, chewed or crushed [See Dosage and Administration (2.9)].

<u>Consumption of Alcohol</u>

Advise patients to completely avoid consumption of alcohol at least 6 hours prior to and 6 hours after taking Trokendi XR**[see Warnings and Precautions (5.4)].

<u>Acute Myopia and Secondary Angle Closure Glaucoma</u>
Advise patients taking Trokendi XR⁺ to seek immediate medical attention if they exper
blurred vision, visual disturbances or periorbital pain [see Warnings and Precautions (5.1)]

Olipohydrosis and Hyperthermia
Counsel patients that Trokend XR**, especially pediatric patients, can cause decreased sweating
and increased body temperature, especially in hot weather, and they should seek medical
attention if this is noticed [see Warnings and Precautions (5.2)].

masterus.cad2600
Inform patients about the potentially significant risk for metabolic acidosis that may be asymptomatic and may be associated with adverse effects on kinneys (ep, kidney stones, nephrocacinosis), bones (ep, cateoporosis, osteomatical, and/or rickets in children, land growth (ep, growth delay/retardation) in pediatric patients, and on the tetus (see Warnings and Procaudhos (5.3).

Suicida Behavior and Joseph Common and Joseph Co

mood or behavior of conce Precautions (5.5)].

Interference with Cognitive and Motor Performance
Warm patients about the potential for somnoience, dizziness, confusion, difficulty concentrating,
visual effects and walves them not to diver or operate machinery until they have gained sufficient
experience on Trokend's NT to gauge whether it adversely affects their mental performance,
mofor performance, and/or vision [see Warmings and Perezulions (3.6)].

Advise patients that even when taking Trokend NRT or other autoconvisions, some patients with epidency will continue to have unpredictable satures. Interferor, counset all plantents basing Trokend NRT for epidency to exercise appropriate caution when engaging in any activities where loss of conceivationess could result in service darger to themselves or these around them where loss of conceivationess could result in service darger to themselves or these around them experiences will be added to the control of th

Field Losectify

Counsel pregnant women and women of childbearing potential that use of topiramate during pregnancy can cause fetal harm, including an increased risk for cleft tip and/or cleft palate (oral clefts), which cover arely in pregnancy before many women know they are pregnant. When appropriate, prescribers should counsel pregnant women and women of childbearing potential about alternative therapeotic options.

Advise women of childbearing potential who are not planning a pregnancy to use effective contraception while using topiramate, keeping in mind that there is a potential for decreased contraceptive efficacy when using estrogen-containing birth control with topiramate [see Warnings and Precautions (5.7) and Drug Interactions (7.2)].

Encourage pregnant women using topiramate to enroll in the North American Antiepileptic Drug (NARED) Pregnancy Registry. The registry is collecting information about the safety of antiepileptic drugs during pregnancy. To enroll, patients can call the foll fore number, 1-88-2 233-2334. Information about the North American Drug Pregnancy Registry can be found at http:// www.massepieraci.org/dea/16ee/dea/56.

<u>Vibranamonemia</u> and Enzobalogality
Warn pallents about the possible development of hyperammonemia with or without
encephalogathy. Although hyperammonemia may be asymptomatic, cilicital symptoms of
encephalogathy Although hyperammonemia may be asymptomatic, cilicital symptoms or
or cognitive function with eletary or vomitting. This hyperammonemia and encephalogathy can
or cognitive function with eletary or vomitting. This hyperammonemia and encephalogathy can
evidely with topismate treatment altone or with topismate treatment altone
acid (VPR). Patients should be instructed to contact their physician if they develop unexplained
ethicary, conting, or changes in metal status (see Warning and Precaulturs CS).

and without encephalopathy and hypothermia [see Warnings and Precautions (5.9), (5.11) and Drug Interactions (7.5)]. CNS Depressants or Alcohol
Concomitant administration of Trokendi XRTh and other CNS depressant drugs or alcohol has not
been evaluated in clinical studies [see Contraindications (4), Warnings and Precautions (5.4),
(5.13), and Drug Interactions (7.1),(7.4)].

(6.13), and thrug miteracous (L. 100.4-10).

Old Contraceptive and Contraceptive and Contraceptive and Contraceptive and Paramacokinetic interaction study in healthy volunteers with a concomitantly administered on binding contraceptive product containing 1 mg norehindrone (NET) plus 35 mag eithirir destable (EE), hoptismate, given in the absence of other medications at doses of 50 to eithir destable (EE), hoptismate, given in the absence of other medications at doses of 500 mg hope of the contraceptive. In another study, response to EE was statistically significantly decreased at doses of 200, 400, and 800 mg per day (18%, 27%, and statistically significantly decreased at doses of 200, 400, and 800 mg per day (18%, 27%, and NET, Although there was a descreased of the major of the contraceptive and the study supports action both NET, Although there was a described and the study support of doses between 200 to 50 mg per day in facility of the considered in particular dose-dependent decrease in EE exposure for doses between 200 to 50 mg per day, there was no supported dose-dependent decrease in EE exposure for doses between 200 to 50 mg per day, there was no supported dose-dependent decrease in EE exposure for doses between 200 to 50 mg per day, there was no supported dose-dependent decrease in EE exposure for doses between 200 to 50 mg per day, there was no supported doses do 50 mg per day, there was no supported doses does not be a supported to the supported doses and th

Digoxin In a single-dose study, serum digoxin AUC was decreased by 12% with concomitant topiramate administration. The clinical relevance of this observation has not been established.

Hydrochlorothiazide
A drug-drug interaction study conducted in healthy, wiluriteers evaluated the siteady-state
A drug-drug interaction study conducted in healthy, wiluriteers evaluated the siteady-state
A drug-drug interaction in the production of High I to Tokendo NT does. The steady-state of the change is the concentrate aministration of production of HIGIT to Tokendo NT does not produce the production of HIGIT to Tokendo NT does. The steady-state of the production of HIGIT to Tokendo NT does. The steady-state of the production of HIGIT to Tokendo NT does. The steady-state of the production of HIGIT to Tokendo NT does. The steady-state of the production of HIGIT to Tokendo NT does. The steady-state of the production of HIGIT to Tokendo NT does. The steady-state of the production of HIGIT to Tokendo NT does not have been described by the production of HIGIT to Tokendo NT does not have been described by the production of HIGIT to Tokendo NT does not have been described by the HIGIT to the production of HIGIT to Tokendo NT does not have been described by the HIGIT to the HIGIT

Topiramate treatment can frequently cause metabolic acidosis, a condition for which the use of metformin is contraindicated. Trokendi XR" is expected to exhibit the same degree of metabolic acidosis as lopiramate.

A drug-drug interaction study conducted in healthy volunteers evaluated the steady-state pharmacokinetics of meterrain (500 mg every 12 hr) and topicamate in plasma when meterformin was given above and when meterrain and topicamate (100 mg every 12 hr) were given simultaneously. The results of this study indicated that the mean meterrain Cu_m and AUC₃, increased by 17% and 25%, respectively, when topicamate was added. Topicamate old rist affect meterrain 1_{cm}. The clinical significance of the effect of topicamate on meterrain when administered with meterrain. The clinical significance of the effect of topicamate on topicamate or Trokend XR** pharmacokinetics is unclear (see *Brug Interactions (7.6*).

<u>Kidner Stones</u> Instruct patients, particularly those with predisposing factors, to maintain an adequate fluid intake in order to minimize the risk of kidney stone formation [see Warnings and Precautions (5.10)].

thoolbarrain.

Comest nations that Trokens' XR" can cause a reduction in body temperature, which can lead to alterations in mental status if they note such changes, they should call their health care professional and measure their body temperature. Plateins taking concentiant velopric acid should be specifically counseled on this potential adverse reaction (see Warnings and Precautions (3.71).

Counsel patients that they may experience tingling in the arms and legs. If this they should consult with their physician [see Warnings and Precautions (5.12)]

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